



Wildlife
Conservation
Society

ANNUAL REPORT 2010

WILDLIFE
CONSERVATION
SOCIETY

SAVING WILDLIFE AND WILD PLACES

[COVER] A humpback whale breaches off Gabon's coast, one of the major breeding and calving areas in the Southern Hemisphere. For almost two decades, WCS conservationists have been studying and helping to protect these whales off Madagascar and in the Gulf of Guinea on the western coast of Africa.

[INSIDE COVER] Josie, an Amur tiger, is one of six cubs born at the Bronx Zoo in 2010. The two litters consisted of three Amur tigers and three Malayan tigers. Four of the cubs (Josie, Julian, Pepino, and Claiborne) received names in honor of WCS supporters.

[BACK COVER] Inspired by the bioluminescence of the ocean, the future Ocean Wonders building (a rendering shown here) will glow softly at night.



A tiger is walking on a log in a grassy field. The tiger is orange with black stripes and is looking down. The background is a lush green field with tall grass and some purple flowers. The title 'ANNUAL REPORT 2010' is overlaid on the top left of the image.

ANNUAL REPORT 2010

The Wildlife Conservation Society saves wildlife and wild places worldwide. We do so through science, global conservation, education, and the management of the world's largest system of urban wildlife parks, led by the flagship Bronx Zoo. Together these activities change attitudes toward nature and help people imagine wildlife and humans living in harmony. WCS is committed to this mission because it is essential to the integrity of life on Earth.

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[Left] Ward Woods
and Steven Sanderson
within the Tropic Zone
at Central Park Zoo.

DEAR FRIENDS,

This year our annual report focuses on “connectivity” in wildlife conservation. For most conservationists, connectivity means providing pathways for wildlife to move from one landscape or habitat to another. In some cases, such as wildebeest or forest elephants, gains in human connectivity through roads and other infrastructure development mean diminished connectivity for wildlife. Our mission is to enable wildlife to thrive, even in the context of an expanding human footprint of infrastructure and economic growth. Everyone agrees that a way must be found to marry the interests of economic progress where poor people and wildlife coincide.

Connectivity has another meaning for urbanites throughout the world—and, since 2007, the world has been officially more urban than rural (50.6 percent urban in 2010). In New York and around the globe, the primordial connection between wild nature and human communities has been lost, only to return as human irritation with wildlife “pests.” Whether it’s deer or coyotes in the suburbs, raccoons in New York City, or marabou storks in Kampala, Uganda, we urbanites have little patience for wildlife intrusions. We coastal city dwellers have also lost connection with our near-shore seascapes, turning our backs on the world’s oceans, which are the wellspring of great port cities.

To succeed as conservationists, we must enable people to connect to wild nature, ensure that wildlife can connect to what remains of fragmented habitats, and inspire people to care about conservation as they develop their personal and economic futures. And we have to connect that prodigious effort to a changing climate, which presents even more challenges. There is no time to waste.

This year, we launched the New York Seascape marine program, which concentrates for the first time on 15,000 square miles of the New York Bight, from Cape May to Montauk. This biodiverse seascape has witnessed the passage of Giovanni da Verrazano and Henry Hudson and turned back the attempts of the *Mayflower* to reach the mouth of the Hudson River. It is a critical part of the U.S. Atlantic shore, cleaved by the underwater Hudson Canyon, the largest ocean canyon on the eastern seaboard. The New York Seascape will protect the 300-plus species in the New York Bight. More importantly, perhaps, it will re-connect us to this great ocean environment that has sustained New York for four centuries.

Further afield, our program in the Wakhan Corridor of Afghanistan discovered the breeding grounds of the large-billed reed warbler, portrayed as

the least-known bird in the world. That discovery is connected to our work with the poor, isolated herders of northeastern Afghanistan, who are totally reliant on their natural resources for survival. In Tanzania, WCS is working side-by-side with the national government to create the first authoritative national elephant strategy, which will focus on solving the issues of habitat connectivity. Tanzania, which has a remarkable commitment to protected areas, counts on all of us to connect the many challenges of great biodiversity to great human need. Other examples abound.

Finally, in the official communiqué of the Convention on Biological Diversity that concluded at the end of October, the global community connected biodiversity to human development. The final aspect of this year’s focus on connectivity will be a plan of work to connect those revelations to concerted global action to protect wildlife and wild places.

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[OPPOSITE] Flaco the eagle owl resides in the Temperate Territory at the Central Park Zoo.



[ABOVE] WCS's Board of Trustees at a meeting at the Bronx Zoo in June.



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QA

JON FORREST DOHLIN

JON FORREST DOHLIN, VICE PRESIDENT AND DIRECTOR OF THE WCS NEW YORK AQUARIUM, RECEIVED A MASTERS IN ARCHITECTURE FROM PARSONS SCHOOL OF DESIGN. ONCE HE DIPPED HIS FEET INTO THE AQUARIUM, HE NEVER LOOKED BACK. JON DISCUSSES WCS'S NEW INITIATIVE "A SEA CHANGE," BUILDING EXHIBITS, AND OUR NEED TO EMOTIONALLY CONNECT WITH NATURE.

DID IT OCCUR TO YOU IN DESIGN SCHOOL THAT YOU MIGHT WORK IN AN AQUARIUM ONE DAY?

While in school, we were doing research on the design of animal exhibits. Our design studio assignment was to design a new exhibit for...the New York Aquarium! I kid you not. Guess what I designed? A shark exhibit, where boardwalk visitors could swim with the sharks. You can't make this stuff up. Once I got my foot in the door at WCS, I never wanted to leave. I was ecstatic to find a place to combine my love of design and wildlife.

WHAT MAKES YOU PASSIONATE ABOUT YOUR JOB?

Coffee! No, there are four things that motivate me. First, I truly believe we are trying to save the world. And we get to do it with both seriousness of purpose and a real sense of playfulness. Second, we're engaged in a diverse set of interesting projects here at the aquarium, projects that inspire me emotionally and challenge me intellectually. Third, I get to work with a really dedicated, inspiring group of people.

Fourth, I think all of us at the aquarium are incredibly lucky to be here at this point in the history of WCS, of New York City, and of the conservation movement, when so many people see the opportunity to create profound changes here.

HOW WILL YOU REMEMBER 2010 AT THE AQUARIUM?

2010 marked the completion of some great first steps toward improving our message and the customer experience. We have given new life to the aquarium's original building, creating a new entry and a vibrant opening exhibit, called the new Conservation Hall. The Hall will highlight WCS conservation work in three unique habitats: tropical coral reefs, the freshwater lakes of East Africa, and the Amazon's flooded forests. It's a great way to begin your aquarium visit and a great opportunity to build awareness of WCS's work in the field and at the aquarium.

WHAT DO YOU HOPE TO ACHIEVE WITH WCS'S NEW SEA CHANGE INITIATIVE?

Here's the bottom line: We want the aquarium to be an entertaining and inspiring place to visit. We want it to be a place where families build memories and schoolchildren learn in an engaging atmosphere. We want it to be fun, creative, and exciting, so people make the New York Aquarium their first choice when they plan an outing. But we really have our hearts and minds set on something even more important: We want the New York Aquarium to be an effective tool for marine conservation.

THIS YEAR MARKED THE LAUNCH OF THE AQUARIUM'S NEW YORK SEASCAPE CONSERVATION PROGRAM. WHAT IS UNIQUE ABOUT OUR LOCAL WATERS?

It's amazing that the waters off New York remain a wilderness to this day—a wild place of seamounts, magnificent ocean canyons, estuaries, wetlands, rivers, and a tremendous diversity of fish, mammals, birds, and invertebrates. It's a wilderness surrounded by 20 million people. For the first time, WCS is bringing our global expertise in marine conservation home to New York. The New York Seascape conservation program will integrate our education program, our exhibitry, and our messaging.

WHAT IMPACT WOULD YOU LIKE THE SEASCAPE PLAN TO HAVE ON NEW YORKERS?

If we can awaken and inform citizens of the New York area about the challenges their ocean faces from age-old threats like pollution, from current threats like overfishing and bycatch, and from emerging threats like climate change; if we can create a sense of ownership and engagement with their cultural history with these waters; and if we instill a sense of empowerment and stewardship about their own ability to get involved for positive change...well, then we can shape a new paradigm that understands that a healthy city needs a healthy ocean and that urban populations can coexist with ocean wildlife to the benefit of both.

WHY THE FOCUS ON SHARKS IN THE COMING OCEAN WONDERS EXHIBIT?

Sharks are the perfect group for the aquarium to feature. They're beautiful and fascinating animals that play a critical role in ocean ecosystems, they're found here in our local waters in surprising diversity, and the aquarium has a long history of successfully exhibiting them. At the same time, these animals are facing immense threats and really need our help. Through sharks we can talk about overfishing and bycatch and about migratory corridors and species diversity.

Sharks captivate people, and every aquarium visitor will be able to take proud ownership of their beautiful ocean wilderness. Most importantly, they can take action in their everyday life to protect it.

HOW WILL THE COMING CHANGES BETTER INTEGRATE THE AQUARIUM WITH THE WORLD OUTSIDE ITS WALLS?

For the first time since our arrival in Coney Island in 1957, the aquarium will have a bold, iconic presence along the boardwalk. Until now, the aquarium has looked inward. This had made our connection with human and marine life beyond our walls less effective and denied boardwalk and beachgoers a feeling for the exciting things happening inside. Now we'll have a building that fits in with the context of Coney Island, making a brilliant statement of the aquarium's presence to the boardwalk, beach, and ocean. At the same time, we'll connect our visitors to the ocean right there. We'll create boardwalk amenities and add fun and capacity to the guest experience.

IN WHAT WAYS DO YOU DRAW FROM YOUR BACKGROUND IN BIOLOGY AND ARCHITECTURE IN YOUR ROLE LEADING THE AQUARIUM?

Clearly this job is a dream come true. It helps to be familiar with the science of conservation and to have experienced the challenges of designing and constructing the types of projects we've planned. But my background also reflects the hybrid nature of our endeavor. We accomplish our job most effectively when we reach both the head and the heart of a visitor. In architecture, buildings have to be structurally sound, but they should also inspire, move, and challenge us. The conservationists that I admire most—people like Alexander von Humboldt, William Beebe, Aldo Leopold, and E.O. Wilson—all knew that our desire to rationally understand nature is rooted in our deep need for an emotional connection with it.

SINCE YOU JOINED WCS IN 1997, WHAT HAS BEEN YOUR GREATEST WILDLIFE MOMENT?

Being there when the gorillas entered the Congo Gorilla Forest exhibit for the first time. To have worked with so many great animal people and so many great designers, to realize such an outstanding exhibit, and to see how successful it was from the gorilla's point of view. It crystallized for me why we all do what we do. It was an incredible honor to play some small part in it. And frankly, I thought I might never have the chance to do something that wonderful again. But now, when I look at the beautiful Sea Change designs and the great conservation messages, I think I will.



[OPPOSITE] Cormorants and gulls among pilings within the New York Seascape.

[ABOVE] Jon is excited to work on the new Ocean Wonders: Shark exhibit at the aquarium.

An Inca tern living
within the Bronx Zoo's
Russell B. Aitken
Sea Bird Colony.



WCS 2010 REVIEW:

ACHIEVEMENTS IN CONSERVATION

FIRSTS

- WCS conservationists find “world’s least known bird” for first time in Afghanistan. The country adds the large-billed reed warbler to its protected species list.
- WCS conducts the first landscape-wide survey of how land-use affects chimpanzees, gorillas, and forest elephants in the Congo.
- The Bronx Zoo breaks ground on two new facilities: The LaMott Wildlife Ambassador Center and the Global Center for Wildlife Health’s Special Care Unit.

INNOVATION

- Cologne research on cats at the Bronx Zoo by General Curator Pat Thomas helps field researchers in Guatemala attract jaguars and other wildlife to camera trap stations.
- In Nigeria, WCS conservationists teach snail farming as an alternative to hunting Cross River gorillas and other wildlife for bushmeat.
- WCS scientists upgrade camera-trap research by developing huge virtual photo albums of species across large landscapes.
- WCS and partners combine satellite imagery of water conditions and DNA samples from Franciscana dolphins to learn how the mysterious cetaceans use their habitat.
- Waldrapp ibises mate successfully at the Bronx Zoo, thanks to “mood music” developed by WCS ornithologists and partners.

NEW PROTECTED AREAS

- WCS helps create Argentina’s 650-square-mile Penguin Island Marine Park to protect rockhopper penguins.
- With the help of WCS research, Myanmar officially designates world’s largest tiger reserve (8,452 square miles).
- Wildlife Reserves Singapore Pte Ltd signs Memorandum of Understanding with WCS.
- WCS aids Cambodia in protecting almost 77,000 acres of grassland habitat important for rare birds.

SUPERLATIVES

- WCS and partners identify 42 “source sites” that are vital to the future propagation of wild tigers.
- WCS researchers monitoring coral reefs off Aceh reveal one of the most rapid and severe bleaching events ever recorded.
- WCS conservationists link higher temperatures and rainfall levels to a growing parasite problem for nestling birds in Argentina.
- A semipostal stamp act becomes law, bringing new revenue to the Fish & Wildlife Service’s Multinational Species Conservation Fund.

SECOND CHANCES

- Kihansi spray toads, born and bred at the Bronx Zoo, return to Tanzania for eventual release into the wild.

- Researchers in Cambodia report climbing numbers for three vulture species. Throughout Asia, a drug (diclofenac) has nearly wiped out these scavenging birds.
- Orphaned bear cubs—a grizzly from Montana and three brown bears from Alaska—find a home at the Bronx Zoo.
- In one of several illegal wildlife trade busts, the WCS-supported Wildlife Crime Unit and Indonesian authorities save a baby orangutan from the pet trade.
- WCS’s New York Aquarium adopts a rescued sea otter pup, named Tazo, from Alaska.

DEBUTS AND ANNOUNCEMENTS

- WCS launches the New York Seascape program to conserve the Long Island Sound and local waters from Montauk, New York to Cape May, New Jersey.
- Five critically endangered thick-billed parrots hatch at the Queens Zoo.
- WCS and partners launch a ten-year plan to protect the endangered eastern chimpanzee across eight African countries.
- Polar Seabirds: Life on the Edge of the World opens at Central Park Zoo, with four new king penguins.
- WCS researchers and its Exhibit and Graphic Arts Department open an interpretive walking trail within Belize’s Glover’s Reef Seascape.

A loggerhead sea
turtle swimming at the
New York Aquarium.



THE 2010 WCS STORY

CONNECTING THE DOTS OF OUR WORLD'S ECOSYSTEMS

THE CONNECTIONS BETWEEN SPECIES, LANDSCAPES, AND THE THREATS TO OUR WORLD'S ECOSYSTEMS GUIDE THE WILDLIFE CONSERVATION SOCIETY'S WORK ACROSS FOUR CONTINENTS—AFRICA, ASIA, NORTH AMERICA, SOUTH AMERICA—AND IN ALL OF THE PLANET'S OCEANS. AS THE GREAT NATURALIST JOHN MUIR WROTE, "WHEN WE TRY TO PICK OUT ANYTHING, WE FIND IT HITCHED TO EVERYTHING ELSE IN THE UNIVERSE."

In 2010, our work highlighted many connections: between the last 1,000 breeding female tigers on our planet and the survival of this great iconic cat for generations to come; between Alaska's National Petroleum Reserve and our world's migrating bird population; between yellow fever in howler monkeys in Argentina and the health of nearby human communities; between building a road in Tanzania and the protection of thousands of migrating animals across the Serengeti; between climate change and the bleaching of coral reefs off Indonesia; and between the research with big cats at the Bronx Zoo and protecting jaguars in the Maya Biosphere Reserve of Guatemala.

In the following pages, we present these and other examples of WCS conservation work that are hitched together in our ongoing effort to protect the world's biodiversity.

CONNECTING WILDLIFE AND LIVELIHOODS

WCS strives to balance its mission to save wildlife and wild places with protecting livelihoods. Through research based on sound science, WCS has worked to strike that balance in a variety of contexts in 2010, in places such as the National Petroleum Reserve in Alaska, the forests in Bolivia, and the snail farms in Nigeria.

National Petroleum Reserve – Alaska

In the summer of 2010, five WCS conservationists ventured to our nation's most remote landscape, the National Petroleum Reserve-Alaska (NPR-A). The purpose of the expedition deep into the Arctic Circle—taken on rubber rafts along the Utukok River—was to determine a research strategy for the area as it faces climate change and development.

Encompassing 23.5 million acres, the NPR-A is home to our nation's largest herd of caribou, our only musk oxen, as well as predators such as wolves, grizzly bears, and wolverines. There is no other spot on Earth that serves as a better breeding ground for our world's migrating bird populations.

WCS is committed to working with the local community (the Inupiat), government officials, and business interests to find common ground between resource development, the sustaining of livelihoods, and the protection of this landscape's magnificent biodiversity.

Tsimané Mosaic Regional Council

In September, 25 communities across the globe won the 2010 Equator Prize for their work to reduce poverty through sustainable development and biodiversity conservation. One winner this year was the Tsimané Mosaic Regional Council (CRTM), one of WCS's indigenous conservation partners in the rainforests of Bolivia. With support from WCS, the council created a plan to conserve



[ABOVE] WCS conservationists, partners, and crewmembers in Punta Arenas harbor upon finishing their expedition to Tierra del Fuego.

the wildlife and habitats of the Pílon Lajas Biosphere Reserve, while also benefiting the reserve's indigenous people who own this land.

Established in 1992, the Biosphere Reserve's goal is to conserve biodiversity and improve the living conditions of Tsimané and Masetene communities. The CRTM preserves local traditions and promotes new livelihood opportunities as it works to prevent illegal land settlements, illegal logging, and other unsustainable activities. In addition to its cultural and social importance, the indigenous territory and reserve host a rich diversity of wildlife, including the Andean bear, the jaguar, and close to 500 bird species.

So far, CRTM efforts have consolidated indigenous property rights comprising nearly 1,500 square miles. The CRTM also helped create a sustainable forestry management plan and an association of organic honey producers and organizations for coffee and cocoa producers. Important basins that supply water to more than 8,000 people in the surrounding region are now protected and the construction of schools for 14 communities has gained support through the council. CRTM's work demonstrates how WCS encourages sustainable development that bolsters local communities.

Nigerian Snail Farms

Once thought to be extinct, Nigeria's Cross River gorillas re-emerged in the 1980s. Still, they remain critically endangered. Though the Cross River National Park is a protected area, local people sometime venture into the forest to kill gorillas for bushmeat. To discourage that practice, WCS has been helping Nigerians to farm snails.

Why snail farms? Historically, people living in the region have had few choices outside of poaching for both food and work. To abandon poaching altogether requires dependable alternatives. A promising new option is snail farming. The large snails, which are considered a local delicacy, offer protein and income sources to local communities. WCS conservationists began by selecting eight former ape hunters from four towns to become snail farmers. They built pens requiring little maintenance to house 230 snails each. Farming snails is expected to be more profitable than the bushmeat trade.

Fewer than 300 Cross River gorillas inhabit the mountainous border between Nigeria and Cameroon. Since 1996, WCS has led a global effort to protect this ape, the most endangered in Africa. In 2008, with the government of Cameroon and other partners, WCS helped

create Takamanda National Park. The new park safeguards a third of the Cross River gorilla population.

CONNECTING CONSERVATION TO ANIMAL HEALTH AND PUBLIC WELFARE

The WCS Wildlife Health Center at the Bronx Zoo celebrated its 25th anniversary in 2010. Building on a quarter century of groundbreaking work, WCS continues to bring its world-class healthcare expertise to our New York City animal collections, as well as to wild places and communities across the globe—from a new Zoonotic Disease Diagnostic Lab in the Congo to investigations into yellow fever outbreaks in howler monkeys in Argentina.

25th Anniversary of WCS Wildlife Health Center

For close to a quarter century, WCS and its Global Health Program have set the standard for the medical treatment of wild animals. Meanwhile across the globe, WCS conservationists and veterinarians have worked tirelessly to facilitate a more robust understanding of the connections between wildlife, human health, and livestock health. This is a hallmark of the WCS One World—One Health™ approach.

The WCS Global Health Program team has led investigations that have correctly identified and diagnosed the West Nile virus in animals and people in New York. Working in the Congo Basin, WCS has likewise pinpointed the source of Ebola outbreaks in humans and has evaluated the threat the disease poses to gorillas. WCS is the first organization to perform health evaluations on wild populations of a wide range of animals, from lowland gorillas and white-lipped peccaries to Magellanic penguins and Chilean flamingos.

In our zoos, the Wildlife Health Program has pioneered new medical practices and surgical techniques. The division was the first to record a streaming video of an arthroscopy in a gorilla. Two other milestones through the years: the Bronx Zoo was the first living institution to perform an embryo transfer from a gaur to a domestic cow; and WCS established the first open database and mapping system for diseases of wildlife, livestock, and humans. This database is used around the world to monitor emerging diseases.

While much has occurred on our grounds in the last 25 years, WCS has a long history pioneering wildlife medicine. The Bronx Zoo was the first living institution in the world to have a full-time veterinarian; the first to have a pathologist and a zoo hospital; and the first to develop a field veterinary program to work

on wildlife health problems around the world. WCS capped its recognition of this banner year for its Global Health Program with a celebratory reception in December.

Congo Zoonotic Disease Diagnostic Lab
Disease rivals hunting and habitat loss as a major threat to gorilla survival in the Republic of Congo. In response, WCS is developing its capacity to rapidly identify diseases affecting apes. In 2010, WCS established a Zoonotic Disease Diagnostic Laboratory (ZDDL) in Brazzaville that will allow for quicker diagnoses. This is especially important in epidemics involving the transmission of zoonotic diseases—illnesses that are transferred between people and animals—such as the Ebola virus.

In the summer of 2010, WCS in Brazzaville learned of the deaths of two people near the eastern boundary of Odzala-Kokoua National Park. The report came from a WCS bushmeat project worker living in a local village. Over the next few weeks, two more people died.

M2: MISSION & MARGIN

This year, WCS launched M2 – Mission & Margin, an initiative to transform our wildlife parks into more customer-centric facilities, where tactical operations are centered around attracting, winning, and keeping customers. With a long-term goal of increasing income and profitability, WCS will reorient our operating model around customers and their experiences. In essence, we will “wire our parks as a business,” so we can consistently deliver on our mission of conservation. This cultural and operational transformation has just begun and includes training workshops and projects, which range from improving the ticket-buying experience at our park entrances, increasing opportunities for guests to interact with zookeepers, and expanding recycling and our handling of trash. M2 is reaching across the organization to harness the collective strategies from staff at all levels.

Together, we believe that M2 – Mission & Margin will change WCS for the better in several ways: culture, customer service, net income, and how our guests link their lives and actions to the world's wildlife and wild places.

In the months that followed, agents from the World Health Organization Congo collected blood samples from people who had been in contact with the deceased. A WCS technician tested the samples at the WCS ZDDL in Brazzaville. The test results were negative for Zaire Ebola virus, information that was critical for guiding the local health response.

This effort marked the first time that a Brazzaville-based lab had used to investigate a human disease outbreak in the Republic of the Congo. The laboratory's use in protecting public health represents an unanticipated benefit to the people of this underdeveloped country. The case highlights the importance of coordinating wildlife and human disease investigations locally. The ZDDL can process tissue samples in one or two days, whereas health staff previously may have had to wait one to four weeks for results to come back from a U.S. lab.

Yellow Fever in Howler Monkeys of Argentina

The connection between wildlife and human health is also illustrated in a recent paper by WCS researchers describing yellow fever in howler monkey populations of Argentina. At least 60 howler monkeys died of yellow fever during the Southern Hemisphere's spring and summer of 2007/2008 and 2008/2009. Yellow fever is almost always fatal in howler monkeys and a die-off could threaten the conservation of these and other primate species across the region. The outbreak raised particular concerns for the brown howler, already endangered due to habitat destruction and hunting.

Several centuries ago, colonists and the slave trade brought the virus that causes yellow fever to the Americas from Africa. South American primate species did not evolve with the yellow fever virus, and thus never adapted defenses against it. Consequently, howler monkeys on the continent remain vulnerable to this mosquito-borne disease, as do many other primates, including humans.

In a recent study (see page 98), the team of WCS researchers and Argentine scientists reported an extensive howler monkey die-off due to yellow fever. The paper noted that because most howlers die suddenly after becoming infected with the yellow fever virus, rapid population declines serve as an "early warning system" for the disease. Such declines also signal to humans that an outbreak is imminent.

When the primate researchers notified Argentina's National Health Authority with their findings, a preventive yellow fever vaccination campaign was launched, saving lives. This effort demonstrated the importance of wildlife monitoring as a means of early detection for pathogens that could affect both animals and humans.

WCS Diagnostic Labs at NYC Parks

In addition to diagnostic labs in the field, WCS maintains five diagnostic laboratories in New York City to ensure the health and well-being of the animals at our zoos and aquarium. Veterinary technicians at our Central Park, Queens, and Prospect Park zoos, and at the New York Aquarium, serve as critical links between the animal collections at these parks and the WCS veterinary staff based at the Bronx Zoo's Wildlife Health Center. Collectively, these laboratories and their staffs represent an essential component of the health care plan for animals in our New York parks and around the world.

PROTECTING HABITAT AND CONNECTING MIGRATION CORRIDORS

In 2010, WCS continued its efforts to connect wildlife habitat by securing safe passage through their landscapes. As society expands its reach and wild places are increasingly targeted for development, centuries-old migration corridors have been disrupted and habitat compromised. From Tanzania's Serengeti to North America's Rocky Mountains to core tiger breeding areas in Asia, WCS works to keep wildlife connected to traditional ranges.

Serengeti Road

The word "Siringitu" in the Masai language means "the place where the land moves on forever." The Serengeti landscape encompasses almost 6,000 square miles of protected park space. One of the greatest ungulate migrations remaining on our planet takes place here. Making the journey are charismatic wildlife—wildebeest, lions, elephants, and rhinos. And yet the Tanzanian government seeks to build a road that would divide this unique wilderness.

If built, the road would bisect the northern area of Serengeti National Park. To disrupt this natural marvel with vehicle traffic might have tragic consequences. For the park's population of more than 2 million wildebeest, the roadway would block their circular annual route from the southern short grass plains at the end of the rainy season to northern tall grass habitats and back again. The highway might also cut off migration into and out of Kenya's Masai Mara National Reserve. The Serengeti is the preeminent symbol of wild nature for millions of visitors to Tanzania and Kenya and a hugely important source of income through ecotourism.

In response, WCS joined the Zoological Society of London and the Frankfurt Zoological Society to ask the Tanzanian government to reconsider this plan and explore other more economically expedient alternatives. Recognizing Tanzania's need for infrastructure development,



we noted that a much better solution would be a new road to the south of the park. That option would be cheaper, serve the needs of more people, and protect this critical migration corridor. In 2011, we will continue to work with the Tanzanian Government on this issue.

North American Wildlife Corridors

The American West is home to a tremendous diversity of migratory mammals. Pronghorn and elk travel between summer and winter ranges. Grizzly bears make their way from berry patches in valleys to white bark pine groves atop mountains. Young wolverines set out from their maternal home range to find a territory of their own. WCS-North America's Corridor Conservation Initiative aims to protect these annual passages by securing and interlinking crucial habitats—both in Western landscapes and the forests of the Northeast.

In 2008, WCS helped to create the first federally protected wildlife migration corridor for pronghorn. These animals, the second fastest

land animal in the world, can run at speeds up to 65 miles per hour during their 100-mile trek between the Upper Green River Basin and Wyoming's Grand Teton National Park. One predator they cannot outrun is us. To better understand how pronghorn are adapting to oil and gas development and other forms of human encroachment, this autumn WCS placed radio collars on these animals to track their movements.

Also in 2010, WCS collared moose and elk to investigate the specific movements of those animals across roads and highways. Such research is part of the growing field of road ecology. WCS contributed greatly to the field in 2010 with *Safe Passages: Highways, Wildlife and Habitat Connectivity* by conservationists Jon Beckmann and Jodi Hilty. The book documents the danger posed by roads and vehicle traffic to migrating animals and the variety of new crossing designs that have arisen to permit safe passage throughout North America.

[ABOVE] Four orphaned cubs found their way to the Bronx Zoo's bear exhibit in 2010.

Protecting Tiger Source Sites

Tigers face a triple threat: poachers kill them for their exotic pelts and body parts; hunters kill their prey; and development encroaches on their habitats. In the past century, tigers have been decimated in the wild, from approximately 100,000 to roughly 3,200. Even bleaker, only about 1,000 of the remaining tigers are breeding females. Declines are apparent in all parts of the tiger's historic range in Asia—from India to the Russian Far East.

To begin the process of reviving tiger numbers and helping this iconic cat repopulate the landscapes available to them, this year WCS recommended a new targeted focus on 42 “source sites.” Source sites are the last strongholds for breeding tigers that could feasibly repopulate larger landscapes. To be given this designation, a source site, or connected source sites, must be able to maintain more than 25 breeding females. The site must also be embedded within a larger landscape that could support more than 50 breeding females. While the 42 sites identified by WCS hold nearly 70 percent of all remaining wild tigers, they represent less than six percent of the tiger's available range.

With an additional investment by the global community of \$35 million a year, we have calculated that we could double the

population of wild tigers and help them reclaim broader landscapes.

CONNECTING LIVING INSTITUTIONS TO WILDLIFE AND WILD PLACES

In 2010, WCS living institutions—our zoos and aquarium in New York City—took full advantage of opportunities to connect with the wild places we work in, whether close to home or across the globe.

The New York Seascape

In August WCS announced a new conservation program designed to restore healthy populations of local marine species. The New York Seascape program highlights the historic, economic and scientific importance of our local waters. The program will help area residents to become more familiar with the ecology and diversity of the New York Bight—a 15,000-square-mile stretch of ocean ranging from Cape May, New Jersey, to Montauk, New York, including the waters of the Long Island Sound.

More than 20 million people live within about 10 miles of this part of the Atlantic. Billions of dollars in commercial revenue and hundreds of thousands of jobs come via economic activities reliant on clean, accessible oceans.



Despite our historic dependence on a productive and sustainable ocean landscape, we have subjected these waters to three centuries of abuse. The spoiling of our waters has brought the decline of sand tiger sharks on the East Coast by more than 80 percent since the 1950s. The catch of alewives has dropped from 140 million pounds in 1969 to only 300,000 pounds today. This year federal officials recommended Atlantic sturgeon—once so numerous in the Hudson River it was dubbed “Albany beef”—for protection under the Endangered Species Act.

Through the Seascape program, we are developing educational efforts, including citizen science initiatives, such as seal and horseshoe crab counts; research assessing the sensitivity of sharks and other endangered species to threats such as climate change; and political support to protect our local waters.

The New York Seascape program is only one element of the Sea Change initiative at the aquarium, a 10-year transformation, in partnership with the City of New York and the Borough of Brooklyn. Another element announced in 2010 was the construction of Ocean Wonders: Shark, a structure that will house more than 40 sharks and 115 species of marine life from local and global waters.

Catnip for Conservation

WCS conservationists in the Maya Biosphere Reserve of Guatemala have been effectively using Calvin Klein’s Obsession for Men to attract jaguars to camera traps. Jaguars are highly elusive cats. The practice helps our staff better estimate population sizes. When sprayed on objects, the cologne appears to attract a variety of feline species and some non-feline species as well.

WCS field researchers knew to choose this particular scent due to the work of Pat Thomas, the general curator at the Bronx Zoo. Thomas applied a variety of perfumes and colognes to trees and rocks in the zoo’s tiger, snow leopard, and cheetah exhibits. After several rounds of trials, he discovered that Calvin Klein’s Obsession cologne elicited the greatest response from the big cats.

Guatemala’s Maya Biosphere Reserve is among the largest protected areas in Central America and one of the most important jaguar refuges in the Americas. For years, WCS researchers struggled to develop more effective methods for estimating their numbers. Obsession for Men and several other perfumes act as catnip, luring wildlife toward motion-sensitive cameras that snap their photo as they stop and sniff. Scientists can determine the number of jaguars living in an area by examining their coat patterns revealed in camera-trap images.



[OPPOSITE] Pepino, a Malayan tiger cub at the Bronx Zoo. Fewer than 3,200 tigers currently exist in the wild.

[LEFT] Double-crested cormorants within the New York Seascape.

Kihansi Spray Toads

In August, the Bronx Zoo flew 100 tiny Kihansi spray toads to Tanzania in the last stage of a bold attempt to save the species from extinction. The toads, born and bred in the WCS Bronx Zoo, were part of a rescue effort by these two institutions, the United States, and Tanzania governments, and the World Bank. Now extinct in the wild, the toads were reared in captivity and returned to a propagation facility in their native country. From there, some toads will return to the wild.

The Kihansi spray toad wasn't discovered until 1996. By then, the penny-size amphibian was already in danger. Its natural habitat is just five acres of the Kihansi Gorge, where the toad once thrived in the mist zone formed by the waterfalls. In 1999, the creation of a new hydroelectric dam blocked much of the water flow to the gorge. The dam drastically reduced the spray of the waterfalls, leaving the toads effectively homeless.

In response, WCS and the Tanzanian government forged an agreement to collect an assurance colony of almost 500 toads from the gorge. The toads were taken to the United States for captive propagation.

About 1,500 toads still reside at the Bronx Zoo, with another 5,000 at the Toledo Zoo. The two zoos will continue breeding and exhibiting the animals and plan to send more toads to Tanzania as their numbers rebound. We hope that the reintroduction of the toads and the strides made on both sides of the Atlantic will turn the tide for this species.

CONNECTING REEF CONSERVATION TO CLIMATE CHANGE AND FISHING LIVELIHOODS

WCS works to protect tropical coral reef biodiversity by improving conservation in priority seascapes in the Caribbean, the western Indian Ocean and the Coral Triangle. Increasingly, WCS is documenting connections between ocean reef health, climate change, and sustainable fishing methods. In 2010, we made those connections in a variety of coastal environments.

Coral Bleaching in Indonesia

In May, the WCS Indonesia office dispatched marine biologists to investigate a large-scale bleaching event in the northern tip of the island of Sumatra. The death of coral there is likely tied to a dramatic rise in the surface temperature of Indonesian waters. Coral "bleaching" occurs when coral tissues expel algae living within them. Some bleached corals may recover over time. Others die. The WCS survey revealed that more than 60 percent of corals in the area were affected.



Monitoring by WCS marine ecologists indicated the rate and extent of the coral mortality exceeds that of most other bleachings on record. The scientists found that 80 percent of some species have died since the initial assessment. They predicted more colonies to die in the months following. Sea surface temperatures in the Andaman Sea—an area that includes the coasts of Myanmar, Thailand, and northwestern Indonesia—have experienced a dramatic 4-degree rise. The same corals had proved resilient to other disruptions to this ecosystem, including the Indian Ocean Tsunami of 2004.

The Sumatra bleaching event destroyed some of the world's most biodiverse coral reefs. It also devastated communities within the region. Many local people are impoverished and depend on these reefs for their food and livelihoods. The bleaching is likely to have a severe effect on reef fisheries. The event reminds us that we must address both the causes and impacts of climate change if these sensitive ecosystems (and the vulnerable lives that depend on them) are to endure.



[LEFT] Kihansi spray toad and toadlet within the World of Reptiles at the Bronx Zoo.

IN MEMORIAM: JOHN THORBJARNARSON

We mourn the loss of John Thorbjarnarson, a WCS senior conservation scientist, who died last February in India from falciparum malaria at the age of 52. A complete herpetologist, John T.—or Juan Caiman as we often called him—worked to conserve a wide variety of reptiles. His specialty, however, was crocodilians. John T. was instrumental in protecting many crocodilian species, including the critically endangered Orinoco crocodile and Chinese alligator, as well as gharials, caimans, and crocodiles.

John T. began his long history with WCS in 1982 with a research fellowship to study American crocodiles. During the late eighties and early nineties, he helped establish a captive breeding population of Orinoco crocodiles in Venezuela, creating protected areas for the release of captive-born young crocs. With more than 1,500 crocodiles released into the wild, the project continues today. He received his PhD from the University of Florida, and became the first assistant director for WCS's growing Latin America program in 1993.

He went on to become WCS's senior herpetologist and studied reptiles in more than 30 countries. In southern China in the late nineties, John T.'s surveys of the Chinese alligator indicated a near total extermination of the species in the wild. With Chinese wildlife biologists he helped initiate habitat restoration projects and reintroduction programs. John T. worked with Cuban colleagues for more than a decade to conserve the highly endangered Cuban crocodile, a species with a small natural range in the Caribbean. In addition to his talent for identifying and spearheading projects of the greatest conservation concern, John T. was an inspiration to budding conservationists, often enlisting local university students in his research. To this day, many of them carry on the work that he began.



[ABOVE] The New York Aquarium's Glover's Reef Exhibit contains colorful denizens such as the rooster hogfish (top left), French angelfish (top right), and queen angelfish.

Kenya Reef Research

Fishing communities on the Kenyan coast rely on the marine populations of coral reefs in the Indian Ocean for food and income. Keeping fish populations healthy keeps the communities thriving. Not surprisingly, fishers often view closures and other fishing restrictions as bad for business. A 2010 WCS study told a different story.

Conducted over 12 years, the research illustrates how communities benefit financially from areas closed to fishing. By protecting coral reef areas, fishery closures safeguard habitat vital to countless species for feeding and replenishing their numbers. At the same time, some species of fish that have been hunted locally to extinction can indirectly enter local fishing populations through areas closed to commercial fishing. Fishers thus benefit from these refuges through the recovery of prized species. The research could have profound implications both for fisheries management and for the conservation

of many marine species that inhabit coral reefs—from sharks, to crabs, to the coral species themselves.

Along with the wildlife resurgence, the restricted areas also spurred a growth in profits. In some cases, local fishers may have caught fewer fish, but the bigger and more desired species they did catch, the more money they fetched at the market. By examining around 27,000 fish caught in three fisheries, the WCS research detailed how no-fishing areas increased revenue for the fishermen and fisherwomen. The results offer great hope for the world's coastal economies. A disproportionately high percentage of the world's marine biodiversity is situated in such areas, where sustainable economic development and poverty alleviation are top priorities.

Belize Marine Fisheries/Interpretive Trail

In the summer of 2010, WCS announced the opening of The Beck Interpretive Trail, located at WCS's Glover's Reef Research Station in Middle Cay, Belize. Glover's Reef is the largest coral reef in the Western Hemisphere and home to sea turtles, sharks, rays, and many fish species. The trail offers information about the ecology, wildlife, and plant life on the 14-acre island. Through graphics, visitors gain insight into how the surrounding coral reefs formed the island and the importance of protecting this seascape. The Beck Trail teaches visitors that protecting this reef, and others, is essential.

The Belize government established the Glover's Reef Marine Reserve in 1992 in partnership with WCS. Facing problems of overfishing, pollution, and unregulated tourism, the Belize Barrier Reef Reserve System was named a UNESCO World Heritage Site in 1996. Despite those protections, commercial fishers have overharvested Belize's valuable fish stocks over time. Herbivorous fish, such as parrotfish and doctorfish, keep algae growth in check. When these species become overfished, the algae can smother reefs.

WCS is now working with the Belize Department of Fisheries to reform its national fisheries policy, bringing it in line with international

standards and national priorities. New standards would help ensure the survival of overfished species and the delicate reefs. It would also encourage the sustainable use of marine resources along the Mesoamerican Barrier Reef.

CONNECTING VISITORS AT THE NEW YORK CITY ZOOS AND AQUARIUM TO CONSERVATION

2010 was a magnificent year for births at our New York City living institutions—the Bronx Zoo, Central Park Zoo, Prospect Park Zoo, Queens Zoo, and New York Aquarium. Lion and tiger cubs at the Bronx Zoo swept the headlines and stole many hearts. With each animal debut, we strive to connect park visitors with the wonders of nature.

Lion Cubs

At the Bronx Zoo, three lion cubs were introduced to an excited public in April. A naming contest co-sponsored by the New York Daily News drew thousands of submissions. WCS announced the results in June: Nala, meaning gift; Adamma, meaning beautiful child; and Shani, meaning wonderful. The debut of the lion cubs helped us to remind zoo-goers of the need to save the remaining 29,000 lions in the wild.

Tiger Cubs

In September, the Bronx Zoo's tiger numbers expanded by six as three baby Amur tigers and three Malayan tigers were introduced to the

public. For the first time, zoo guests had the opportunity to view the tigers in adjacent exhibits at Tiger Mountain, enabling them to compare the size and color differences between the two subspecies.

Other Animal Births

The Bronx Zoo celebrated its first successful birth of an aardvark. Central Park Zoo welcomed Abe, a mini Nubian goat, and new litters of pups born to two species of mongoose. Queens Zoo announced the birth of four Jacob's four-horned lambs. In Brooklyn, Prospect Park Zoo saw the arrival of two Hamadryas baboons, and the New York Aquarium witnessed its first birth of a California sea lion.

AS WCS ENTERS 2011...

The WCS team has a long and deep history of working and living in New York City and communities around the globe. For 115 years, we have harnessed the smartest minds and best imaginations in the field of conservation, covering all the bases and connecting all the dots, whether in Kenya, Indonesia, or the Arctic. Our work in more than 60 countries will continue into 2011 and beyond, in partnership with our private and governmental funders, which enable our team to achieve the results told in our 2010 story. And as will be told for many generations to come.

IN MEMORIAM: YMKE WARREN

Ymke Warren, a WCS conservationist who worked to save the world's rarest great ape, died tragically at the hands of intruders in her home in Limbe, Cameroon. Her loss is felt by WCS and all who knew the quiet primatologist.

Ymke was committed to her work as research coordinator for WCS's Takamanda-Mone Landscape Project and dedicated to the protection of Cross River gorillas. Found only in the forests of Cameroon and Nigeria, this Critically Endangered ape numbers fewer than 300 individuals. Ymke oversaw the monitoring of Cross River gorillas in Takamanda National Park and Kagwene Gorilla Sanctuary, both established for the conservation of these primates and their habitat.

Only 40 years old at the time of her death in June, Ymke's conservation work in Africa spanned nearly two decades. She studied mountain gorillas at the famous Karisoke Research Station as a research assistant until 1994, when the outbreak of Rwandan genocide interrupted the station's activities. She returned to Rwanda to complete her Masters thesis on mountain gorillas in 1998, serving briefly as acting director of Karisoke in 1999.

Passionate about mountain climbing, Ymke hoped to establish an "African Three Peak Challenge" (modeled on the National Three Peak Challenge in the United Kingdom) as a fundraising tool for gorilla conservation. She also provided guidance for aspiring conservationists and field staff in an effort to protect Africa's natural heritage. She will be sorely missed. We at WCS will carry on with her work to conserve the Takamanda-Mone Landscape and save the Cross River gorilla, as Ymke would no doubt wish.



QA

RICHARD TSHOMBE

A 17-YEAR WCS VETERAN, RICHARD TSHOMBE SERVES AS COUNTRY DIRECTOR IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC). HERE, RICHARD DISCUSSES THE BUSHMEAT TRADE, CONSERVATION PRIORITIES, ECONOMIC DEVELOPMENT, THE NEEDS OF LOCAL COMMUNITIES, AND HOW WORKING WITH WILDLIFE HAS HELPED HIM THINK ABOUT HIS OWN LIFE.

WHAT FIRST DREW YOU TO CONSERVATION SCIENCE?

Policy. It's now clear that conservation is not dealing with the relationship between human beings and nature but rather about what human beings feel about nature. A lot of policies taken by powerful groups and people (including governments and NGOs) are leading to the destruction of forests and the loss of biodiversity. What first drew me to conservation science were policy and its power over conservation.

DESCRIBE YOUR WORK AS COUNTRY DIRECTOR IN THE DRC.

One of the most challenging aspects of my job is to make sure that what we are doing is really supporting DRC's government, civil society, and other partners—and that others understand how hard we work at this. This involves working with the media and using various opportunities to publicize what we are doing. As country director, I also have to make sure that we're in compliance with national laws and norms—things like taxes, visas, permits, and mandated

government reports. I oversee our financial management and have the responsibility to make sure that WCS in New York and other colleagues in the program are on top of what's going on in DRC (politics, conservation, environment, security, etc.).

WHAT IS IMPORTANT ABOUT THE ITURI-EPULU-ARU LANDSCAPE WHERE YOU WORK?

The Ituri-Epulu-Aru Landscape is dominated by the Okapi Faunal Reserve (OFR). The OFR was established in 1992, with the assistance of WCS field staff, to help conserve nearly 14,000 square kilometers of spectacular plant and animal diversity in the heart of the Ituri region. The OFR supports the largest remaining population of Congo's endemic rainforest giraffe, the okapi, as well as large populations of elephant, 17 species of primates, 2 species of forest pigs, 10 species of forest antelope, and the forest buffalo. Over 300 species of birds and 500 species of butterflies have been identified in the central sector of the OFR. The Ituri Forest is also rich in plant diversity, including many

valuable timber tree species, such as African mahogany and Iroko.

HOW IS DEVELOPMENT AND POPULATION GROWTH IMPACTING THAT LANDSCAPE?

The Ituri-Epulu-Aru Landscape has been home to the Mbuti and Efe for at least 40,000 years. These hunter-gatherers remain some of the most traditional people on the planet and still depend on foraging in the forest for much of their daily subsistence. We estimate that roughly 300,000 people occupy the landscape and its immediate periphery. The rich and diverse forests there are threatened by unregulated exploitation of resources and the high population density and demographic growth in neighboring regions. Meanwhile, the eastern and southern frontiers are now experiencing deforestation and loss of biodiversity due to agriculture, artisanal logging and mining, the commercial bushmeat trade, and ivory hunting.

HOW HAS YOUR CONSERVATION MISSION IN DRC CHANGED OVER THE YEARS?

For several years we've been engaged in land-use planning for the Ituri Forest. What makes this work more exciting than in the past are the opportunities we now have to demonstrate that conservation can provide tangible benefits. We've now started to address the problem of poverty in the country through various projects: agro-forestry with shade cocoa; improved seeds of cassava, beans, and rice; improved stoves; small grants to locally-initiated projects that tackle shift agriculture and loss of biodiversity. And so on. I remember the old days when we were trying to convince people that conservation is the future, without addressing the present.

TELL US MORE ABOUT THE IMPACT OF THE BUSHMEAT TRADE IN THE DRC.

Illegal wildlife trade is clearly a challenge in DRC, where people have a cultural preference for bushmeat and, because of poverty, rely much on natural resources for their livelihood. Bushmeat is traded openly, and restaurants in big cities include bushmeat on their menu. At the same time, rampant poaching activities by officials or their representatives are jeopardizing our efforts to improve the status of wildlife. Poachers are arrested and taken to courts and to jails. But they are typically released a few months later. Despite the negative impact of the wildlife trade on protected areas and wildlife populations in general, we need more data to provide a countrywide picture.

WHAT SPECIES ARE UNDER THE GREATEST THREAT IN THE DRC, AND IN WHAT WAYS IS WCS ADDRESSING WHAT THREATENS THEM?

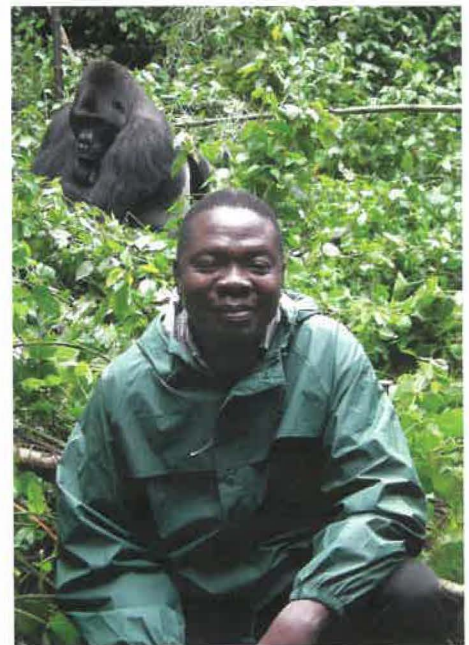
The most threatened species certainly include gorillas, okapi, and elephants. WCS is providing crucial information showing abundance, distribution, and threats to those species, while also offering financial and technical assistance to the DRC government. Building the capacity of the government's staff is one guarantee of sustainability. We've been doing this for the last 24 years, but there are things out of our control—rebels, unpaid soldiers trading wildlife, poachers released from prisons, etc. We are also moving from isolated initiatives to a multiple landscape approach. A transboundary approach on gorilla conservation in the Greater Virunga is harmonizing law enforcement efforts between several countries.

WHAT HAS BEEN YOUR PROUDEST ACHIEVEMENT IN YOUR TIME WITH WCS?

When I became the DRC country director, WCS had proven records in wildlife conservation. The challenge was, therefore, to balance wildlife conservation and livelihood security while consolidating our leadership in bio-monitoring. We were criticized for not being able to demonstrate that conservation can provide benefits to the local community. Local leaders and their communities were reluctant to really participate in our program activities. We proved the skeptics wrong. My proudest achievement has been to provide this balance and to expand our expertise to community conservation.

BROADLY SPEAKING, WHAT DOES WORKING WITH WILDLIFE TEACH YOU?

Dealing with wildlife, and the environment in general, means dealing with what are the most essential issues we face. It means dealing with what sustains our life, from birth to our death. That is exciting. Last week somebody was shocked, because I was telling her that human beings are just one kind of animal among others. Then she cooled down when I told her that what I'm learning from wildlife is helping me a lot in my life. One of the most important principles I have learned from wildlife is "collective wisdom." In French I would have said "collective intelligence," not wisdom. We need more "collective wisdom" in DRC to rethink our approach to life, taken from principles drawn from wildlife.



[OPPOSITE] Richard Tshombe standing in a cassava garden.

[ABOVE] Western lowland gorillas are just one of many species Richard and his team work to protect in the DRC.

A snowy Zoo Center
in the Bronx.



2010 FINANCIAL REPORT

FOR THE SEVENTH CONSECUTIVE YEAR, WCS ENDED THE 2010 FISCAL YEAR WITH A SMALL OPERATING SURPLUS. OPERATING REVENUE AND SUPPORT EXCEEDED EXPENDITURES BY \$1.7 MILLION. WE PROUDLY CONTINUE TO REALIZE OUR CONSERVATION MISSION WHILE RESPONSIBLY LIVING WITHIN OUR MEANS. WE TOOK AGGRESSIVE MEASURES EARLY IN THE FINANCIAL CRISIS TO REDUCE EXPENDITURES WHILE MAINTAINING AND INCREASING INVESTMENTS IN TRANSFORMATIONAL EFFORTS TO FOCUS AND STRENGTHEN OUR PROGRAMS. ATTENDANCE AT OUR PARKS REACHED A RECORD 4.46 MILLION VISITORS, AND OUR GLOBAL CONSERVATION AND HEALTH PROGRAMS ARE THRIVING.

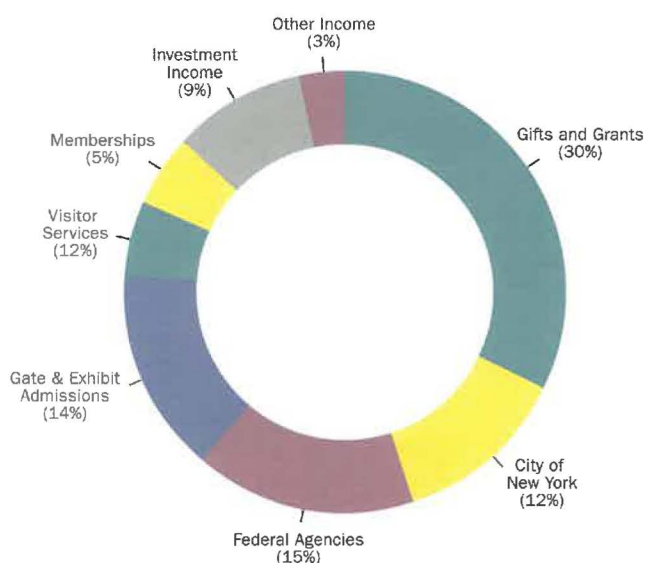
Operating revenue and support totaled \$201 million, a 2 percent decline from the prior year. During a time of increasing financial pressure, WCS's diversified revenue base proved to be one of our strengths. In FY2010 programmatic support from private contributions, state and federal agency grants, foreign aid, and multi-lateral organizations grew, totaling nearly \$89 million and providing 45 percent of total revenue. These funding sources offset, in part, sharp reductions in City funding and endowment income. Federal grant support of our global conservation and global health programs through USAID, the Fish and Wildlife Service, and other agencies grew 13 percent, to a new high of \$29 million.

Attendance-driven revenues—income from gate admissions, exhibits and contributions from visitor services (food, merchandising, parking activities)—totaled \$52.8 million, another record high. Our membership program provided \$10.9 million for operations, climbing 3 percent. Our growing attendance and membership testify that WCS parks are important to New Yorkers and that we successfully connect people to wild nature. The City of New York provided \$24.4 million for park operations through the Department of Cultural Affairs and the Department of Parks and Recreation. This was 13 percent (\$3.6 million) less than last year. The drop resulted mainly from our success in generating higher earned

income at the city zoos, thereby lowering the Parks Department's reimbursement commitment. The decrease also resulted from cuts in City funding for the Bronx Zoo and the New York Aquarium through the Department of Cultural Affairs.

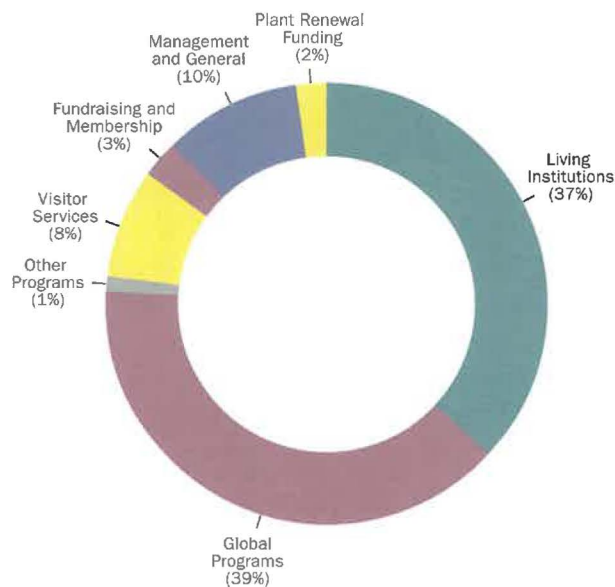
Investment income for operations dropped dramatically in FY2010, by \$7 million (27 percent) to \$19 million. The reduction was expected, as WCS's endowment spending policy required that we reduce endowment payout to account for the 29 percent investment loss incurred during the 2008 market crash.

WCS operating expenditures in aggregate totaled \$199.3 million in FY2010, a decline of 2 percent. Program services expenditures and on-site visitor related costs totaled \$169.1 million, a slight reduction. Global conservation and health programs accounted for \$78.2 million, growing five percent and reaching a new high. These programs—funded by restricted gifts, grants, and contracts from private individuals, foundations, federal agency grants, and other non-U.S. sources—continue to increase, albeit at lower rates than previous years. Other programs, particularly spending at our zoos and aquarium and other categories of expense, significantly shrank in order to stay within the funding available from earned revenues, private contributions, endowment, and the City of New York. In 2009, WCS completed a painful restructuring



2010 OPERATING REVENUE

(\$201 million)



2010 OPERATING EXPENSES AND PLANT RENEWAL FUNDING

(\$199.3 million)

in response to the global economic crisis. Determining to “right size” to weather dramatic revenue shortfalls into the foreseeable future, we made permanent reductions to WCS’s fixed costs, totaling \$15 million (15 percent of our unrestricted budget). The changes were fully operational by July 1, 2009. Programmatic activities not deemed mission critical were cut back or eliminated, business practices were streamlined to cut costs, non-personnel budgets were reduced, and there was a reduction in force. As a result 2010 expenditures in our living institutions, the Bronx Zoo, the New York Aquarium, and the city zoos were \$73.8 million, 6 percent less than last year. With great regret, Wildlife Conservation magazine was closed. We reduced administrative and support services by 10 percent to \$26.8 million, now comprising a lean 13 percent of our expenditure base. However, WCS continues the commitment to set aside a portion of unrestricted income for a facilities renewal fund—3.3 million in 2010. With recurring revenues, the fund supports the growing infrastructure, equipment, and technology needs of our aging facilities.

Capital expenditures totaled \$13.9 million in FY2010, considerably less than the \$33.8 million spent in FY2009. This reduction reflected a planned hiatus between completing our existing campus master plan and developing the next ten-year plan. We completed the refurbishing of the New York Aquarium’s Conservation Hall. Its new exhibits focus on conserving coral

reefs of Belize and the Indo-Pacific “Coral Triangle,” African freshwater lakes, and the Amazon’s flooded forest. The remaining phase of the Conservation Hall improvement program (Glover’s Reef exhibitry and entrance area upgrades) is in progress, slated for completion in April 2011. Capital expenditures also included a new amphibian propagation center at the Bronx Zoo. As part of the initiative A Sea Change at the New York Aquarium, we finished the schematic design of our Ocean Wonders: Shark exhibit building adjacent to the Coney Island boardwalk.

In FY2011, we begin the execution of the new Master Plan. Several large, funded construction projects will commence: the next stage of the Bronx Zoo’s C.V. Starr Science Campus with the Special Care Unit (Isolation Quarantine) and LaMattina Wildlife Ambassador Center; the Queens Zoo’s jaguar exhibit; and more design work on the Ocean Wonders exhibit. Since FY2000, WCS has spent \$243 million on physical plant improvements on all five campuses, financed through a combination of New York City and federal government grants, private gifts, and proceeds from WCS’s Series 2004 tax-exempt bond issue. In addition, the City of New York made direct expenditures for work at the New York Aquarium and at the Bronx Zoo.

WCS has a strong balance sheet, with total assets of \$766 million and a high degree of liquidity. Operating cash and cash equivalents totaled \$62 million on June 30, 2010. Our investment portfolio

CONSOLIDATED BALANCE SHEETS

June 30, 2010 and 2009, in thousands

ASSETS	2010	2009
Cash and Cash Equivalents	61,684	52,005
Accounts Receivable	2,930	3,048
Mortgage Receivable	—	3,500
Receivable from the City of New York	15,476	27,895
Receivable from the State of New York	5,377	7,095
Receivable from Federal Sources	31,927	30,749
Grants and Pledges Receivable	28,914	33,980
Inventories	1,790	1,846
Prepaid Expenses and Deferred Charges	4,452	6,217
Investments	380,869	352,422
Amounts Held in Trust by Others	1,605	1,726
Funds Held by Bond Trustee	13	39
Property and Equipment	230,856	235,353
Total Assets	\$765,893	\$755,875

LIABILITIES AND NET ASSETS

Accounts Payable and Accrued Expenses	28,011	31,337
Annuity Liability	3,405	3,290
Bonds Payable	66,590	66,627
Post-retirement Benefit Obligation	26,987	23,051
Total Liabilities	\$124,993	\$124,305

Net Assets

Unrestricted:		
General Operating	1,741	—
Designated for Long-Term Investment	147,402	234,571
Net Investment In Property and Equipment	168,766	154,882
Total Unrestricted	316,168	389,453
Temporarily Restricted	114,504	113,026
Permanently Restricted	205,566	202,376
Total Net Assets	\$640,900	\$631,570

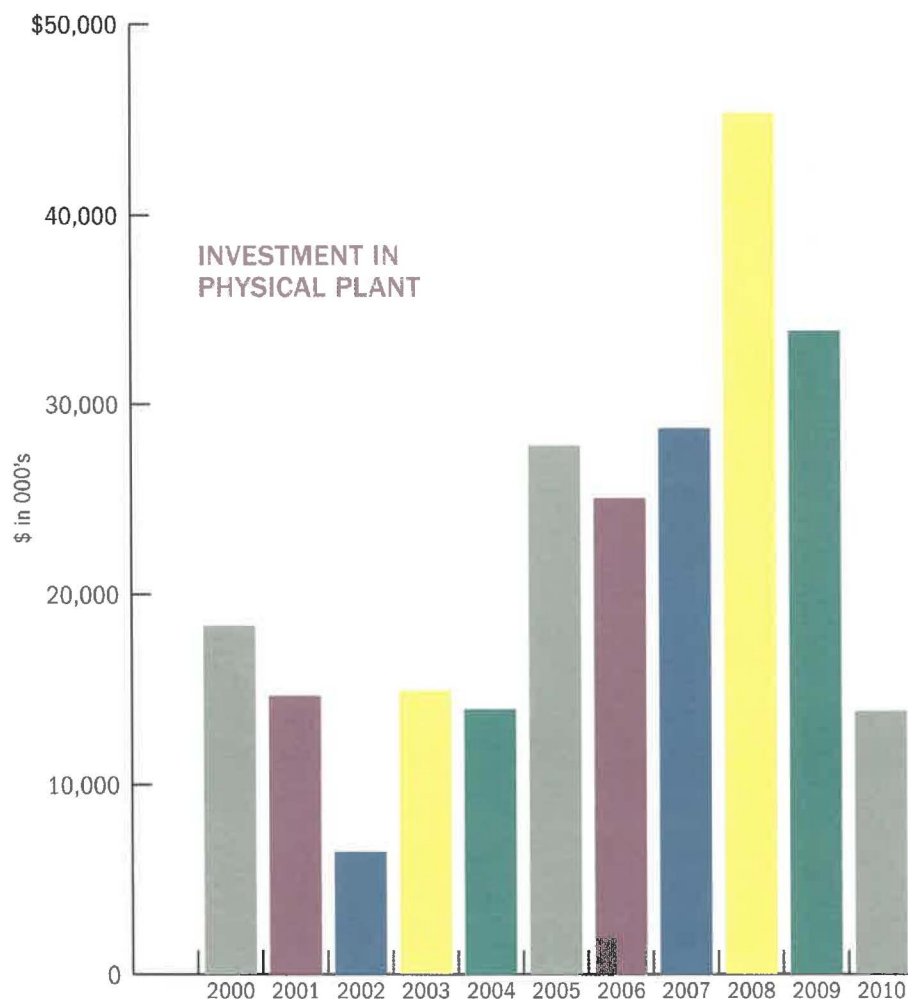
TOTAL LIABILITIES AND NET ASSETS	\$765,893	\$755,875
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Copies of audited financial statements are available upon request.

OPERATING REVENUES AND EXPENSES

June 30, 2010 and 2009, in thousands

REVENUES	2010	2009
Contributed	\$44,045	\$41,496
Membership Dues	10,875	10,563
Investment Income	18,959	25,901
City of New York	24,420	28,064
New York State	3,329	3,720
Federal Agencies	29,221	25,843
Non-governmental Organization Grants	12,094	13,075
Gate and Exhibit Admissions	28,609	28,907
Visitor Services	24,189	22,852
Education Programs	1,875	1,675
Sponsorship, Licensing, and Royalties	1,590	1,975
Other	1,818	1,330
Total Revenue	\$201,024	\$205,401
EXPENDITURES		
Program Services		
Bronx Zoo	46,509	50,145
New York Aquarium	10,492	12,108
City Zoos	16,810	16,665
Global Programs	78,168	74,501
Wildlife Conservation Magazine	—	1,458
Lower Bronx River Habitat Conservation	1,593	843
Total Program Services	\$153,572	\$155,720
Visitor Services	\$15,541	\$14,821
Supporting Services		
Management and General	20,181	22,847
Membership	2,027	2,296
Fundraising	4,637	4,798
Total Supporting Services	\$26,845	\$29,941
PLANT RENEWAL FUNDING		
	\$3,325	\$3,262
TOTAL EXPENSES AND PLANT RENEWAL FUNDING	\$199,283	\$203,744
EXCESS OF REVENUES OVER EXPENSES AND PLANT RENEWAL FUNDING	\$1,741	\$1,657



is recovering from the 2008 market crash, as assets increased from \$352 million at the end of FY2009 to nearly \$381 million on June 30, 2010. In January 2008, WCS streamlined investment management and allocated a significant portion of long-term investment assets to Makena Capital Management. The Makena investment is a highly diversified, multi-asset class of funds. At June 30, 2010, Makena held \$212.6 million (57 percent) of WCS's long-term investment portfolio. Makena's reported net performance for the year ending June 30, 2010 was 13.9 percent, beating WCS's custom benchmark (60 percent Russell 3000/40 percent Barclays US Aggregate), which was up 13.2 percent. Makena's performance was similar to, or better than, the returns of other major endowment portfolios during the same period. However, for FY2010, the return on WCS's total \$381 million investment portfolio was lower, at 6.1 percent. This is due primarily to the large cash balances held within the portfolio for most of the year, as WCS interviewed investment advisors for the remainder of the portfolio, selected Cambridge Associates, and implemented a new investment plan. Liabilities have remained stable since WCS has not issued any additional debt, and the \$66.6 million of Series 2004 bonds hold fixed interest rates.

We continue to meet our challenges with both optimism and discipline. Our budget is balanced and includes a growth strategy with investments through a strategic initiatives fund in species

and landscapes conservation, government affairs and policy, program development, and conservation finance. It is still early days, but we have begun to see returns. For example, incremental investments in staffing have let us build on our success with U.S. Government agencies and develop new bi-lateral and multi-lateral funding opportunities. WCS has also added more land and seascape prospectuses and species plans to boost fundraising efforts. The FY2011 budget invests in our new leadership in Global Resources to expand the base of individual and foundation donors, foster corporate relationships, and develop conservation finance opportunities. The new \$25 million Wilson challenge match will help meet Global Conservation's need for flexible funding, a valuable tool to leverage new gifts from donors.

Our living institutions are the heart of our conservation mission and the foundation of our financial strength. We focus anew on increasing attendance, improving the guest experience, and enhancing earned income in our parks. The financial crisis changed our world permanently. Harnessing the economic engine of our parks is key to protecting our financial future and fulfilling our mission to connect people with nature. To do this we are engaging our staff in a process to evaluate and shape our programs, collection plans, staffing, and capital investments under this lens.



QA

MELISSA NELSON

MELISSA NELSON STARTED OUT TRAINING DOLPHINS IN THE FLORIDA KEYS. NOW, SHE TEACHES BRONX ZOO ANIMALS HOW TO HELP THEMSELVES—TO TOYS, TREATS, AND HEALTH CARE. WORKING IN WCS'S ANIMAL ENRICHMENT PROGRAMS, MELISSA WORKS HARD TO KEEP OUR ANIMALS HEALTHY AND HAPPY. HERE SHE DESCRIBES CALMING CROCODILES WITH A FRISBEE AND HOW SOME ANIMALS TRAIN US.

WHAT IS ANIMAL ENRICHMENT?

A good overall way to define enrichment is anything that increases an animal's choices, gives it control over its environment, or enhances its welfare. For pets at home, this would mean walks, toys, special treats, or anything that makes life more stimulating. For animals in a zoo, enrichment generally involves finding ways for them to practice natural behaviors, i.e., aardvarks digging giant holes in sand, birds building nests, etc. A good enrichment and training program can help provide the best possible environment, which is a critical goal for us at the zoo.

WHAT ROLE DOES TRAINING PLAY IN THE ENRICHMENT PROCESS?

In behavioral enrichment, or training, the animal participates only if it chooses to. From its perspective, it is training us to be dispensers of good things. When we work cooperatively, animals learn what to expect and actively choose to participate. This removes much of the stress involved in routine care. Many of

our animals are edging toward extinction. If we're their best chance for their species' survival, we need to provide the most appropriate environment and the best possible care, so they will lead healthy lives and continue to breed in our zoos.

HOW DID YOU BEGIN WORKING IN THIS AREA?

I began my career in animal training as a marine mammal trainer at the Dolphin Research Center in the Florida Keys. It was an amazing place to learn how to train animals, and the experience I received was simply priceless. A few years later I was adopted by a shelter dog, who came with some "baggage." None of my prior training prepared me for him, so we learned together. Both of these very different experiences with animal training solidified my decision to make animal behavior my life.

WHAT IS UNIQUE ABOUT THE APPROACH TO ANIMAL ENRICHMENT IN THE PARKS?

WCS is in the unique position of having world-class animal facilities as well as well-developed

global conservation projects. In our zoos and at the New York Aquarium, we're perfectly situated to both inform and learn from field science. Enrichment and training programs play an important role in determining the best care for our animals. WCS alone is in the position to synthesize these two pieces into a powerful conservation tool.

HOW DOES ANIMAL ENRICHMENT VARY FROM ANIMAL TO ANIMAL?

Animals are individuals and as such, have individual preferences. We structure our enrichment and training programs according to the animal's natural history and its most important senses. We then let their individual preferences guide us. A good example is that for many animals, scent is a very important sense. So even though an exhibit may look the same to us from day to day, we vary the smells daily. This makes it a very different experience for that animal. Animals respond very differently to various enrichment items. One of my favorite projects has been working with the keepers to teach some of the animals to paint pictures. Those that are interested really seem to enjoy the creative process.

HOW DO YOU DEVELOP DIFFERENT ENRICHMENT ACTIVITIES?

We like to be consistently inconsistent. So nothing gets boring. Toys are rotated, diets are varied, and exhibits are redecorated. The keepers learn which are their animals' favorite items or routines. Then we draw upon that to create dynamic and fluid environments. We sometimes have brainstorming sessions to develop new projects or ideas. One important note is that just because an animal is not interacting with something does not mean the item is failing to do its job. Most people who own televisions don't have them turned on 24 hours a day. The idea is to give the animals choices, and sometimes their choice is to ignore.

WHEN YOU GET TO KNOW AN ANIMAL, IS ITS BEHAVIOR USUALLY PREDICTABLE?

The animals themselves continually surprise me. In the 13 years I have been in this field, the one constant has been "expect the unexpected." Animals are not little machines. They make choices and have preferences. Being ready to adapt to them at a moment's notice keeps me on my toes and makes for an exciting job. If we use training to teach what we need, as well as listen when they communicate their needs, we can develop positive, mutually trusting relationships—ones where our animals actively participate in their own care.



CAN ENRICHMENT ACTIVITIES AT THE ZOO BE APPLIED IN THE FIELD?

Animals are notoriously difficult to study in the field, but in our facilities we get a peek into their private lives. In a zoo, we can much more easily investigate questions like, "Do giraffes have good color vision?" Pat Thomas, the Bronx Zoo's general curator, received attention this past summer for his research on scent enrichment and cats. Since most big cats are solitary and elusive by nature, they are very hard to survey. When Pat found that the cats in the zoo respond strongly to certain scents, WCS used that knowledge to attract cats in the wild to camera traps. This gave us a clearer picture of animal populations in the wild.

CAN YOU SHARE A MEMORABLE MOMENT AT WCS AS AN ENRICHMENT EXPERT?

Well, the achievements in training are not mine alone but are shared among the staff. I'm part of a team. The keepers are the driving force. But yes, we've had some exciting and proud moments. One was when we needed to perform horn surgery on one of our rhinos. The keepers spent several months diligently training her in preparation for this. She learned to not only be calm for what we needed but to actively enjoy the attention. The entire endeavor flowed perfectly because our keepers provided this critical first step.

Our reptile keepers have also begun training our crocodilians. Muru, a male Nile crocodile, responded so well and learned so quickly that a year and a half after beginning his training, our vets were able to get a voluntary blood sample from his tail—which is a powerful, and potentially dangerous, whip. If this hasn't blown your mind, picture an 8-foot-long crocodile calmly maintaining his "station behavior" (keeping his face in contact with a Frisbee), while a keeper and a vet enter his exhibit. The crocodile allows the vet to manipulate his tail, swab it with alcohol, insert a needle, and draw a blood sample. Amazing, right?



[OPPOSITE] Indy, a female California sea lion, during an enrichment session.

[LEFT] Melissa, here with a young giraffe, works with all types of animals in the WCS collection.

[RIGHT] The "artwork" of Pattycake, a western lowland gorilla at the Bronx Zoo.



WCS: A YEAR IN PICTURES

THE FOLLOWING PHOTOGRAPHS CAPTURE WILDLIFE IN THEIR NATURAL HABITATS AND THE PEOPLE WORKING TO PROTECT THEM.



WCS AT WORK: ABROAD

- 1 Overcoming rough seas, significant swells, and hail and snow storms, WCS conservationists conducted a marine expedition in December to the Almirantazgo Sound in Tierra del Fuego.
- 2 Regional Field Program Manager Angela Yang holds a white-rumped vulture in Cambodia.
- 3 WCS conservationists and trustees visited Tanzania's Tarangire and Mahale national parks and Uganda's Kavali National Park over the summer.
- 4 Field Technician Fred Goodhope collects scat to determine whether the female muskoxen are pregnant.
- 5 WCS-North America Director Jodi Hilty during an Arctic expedition on the Utukok River.







WCS AT WORK: NEW YORK

- 6 James Gottlieb, a wild animal keeper, prepares food for animals at the Prospect Park Zoo.
- 7 Diana Belich with Buckley the wallaby, Sen. Ruth Hassell-Thompson and her grandson.
- 8 Senior Exhibit Specialist Carrie Fuchs works on a design for a Galapagos tortoise exhibit.
- 9 A thick-billed parrot perches on Mark Hall, assistant supervisor of animal programs at the Queens Zoo.
- 10 Mark Hofling feeding peafowl at the Bronx Zoo.
- 11 Keeper James Putnam with a Jacob's four-horned lamb at the Queens Zoo.
- 12 Jenny Pramuk and Wild Animal Keeper Alyssa Borek prepare Kihansi spray toads for their trip to Tanzania.



EDUCATION

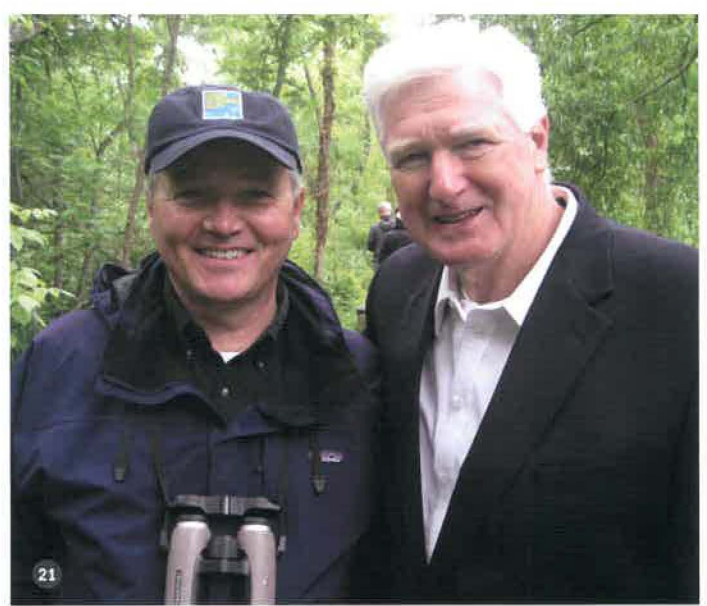
- 13 A docent shows children a horseshoe crab at the New York Aquarium's touch tank.
- 14 Mothers participating in WCS's SPARKS program take a trip through the Madagascar! exhibit.
- 15 Director of Government and Community Affairs Janet Torres, Author Dan Yaccarino, Actress Ally Sheedy, and schoolchildren during the T.I.G.E.R Reading Competition.
- 16 Children get licks from an alpaca during summer camp.



CAMERA TRAP PHOTOS

- 17 A bush pig goes for an early morning forage in Kenya.
- 18 A jaguar in Guatemala comes in for a closer sniff of Calvin Klein's Obsession for Men.
- 19 This aardwolf in Kenya is a member of the hyena family. It's likely on the hunt for ants or termites.





PARTNERING WITH GOVERNMENT

- 20** Jeanette Henley of the World Wildlife Fund, Rep. Lois Capps (D-CA), and WCS Washington Office Director Kelly Keenan Aylward at Capitol Hill Oceans Week.
- 21** WCS President and CEO Steven Sanderson and Rep. James P. Moran (D-VA) at a WCS-led bird walk on Washington's Teddy Roosevelt Island.
- 22** Prospect Park Zoo Director Denise McClean and Central Park Zoo Director Jeff Sailer in Washington for the Association of Zoos and Aquariums Annual Fly-In.
- 23** Afghan Governor Habiba Sarabi and Rep. Judy Biggert (R-IL) during the Women and Conservation event.
- 24** WCS's Sarah and Paul Elkan with Rep. Nita Lowey (D-NY) during a Southern Sudan briefing.
- 25** WCS-Africa Director James Deutsch and Rep. Madeleine Bordallo (D-GU) at testimony for the reauthorization of the Great Ape Conservation Act.
- 26** WCS Washington Office Director Kelly Keenan Aylward, Rep. Paul Tonko (D-NY), WCS President and CEO Steven Sanderson, and WCS Executive Vice President for Public Affairs John Calvelli at the Capitol Hill launch of State of the Wild.



SPRING GALA

Honoring Jonathan F. Fanton and Art Ortenberg for their leadership and commitment to conservation, Gala 2010: *Flights of Fancy* was a sight to see, with floral flamingos, swans, and parrots imagined by Preston Bailey, event designer and floral architect. More than 600 guests enjoyed cocktails around the sea lion pool and dinner under the stars. Faith and Peter Coolidge, Gillian Hearst Simonds and Christian Simonds, Katharina Otto-Bernstein and Nathan Bernstein, Ashley and Ogden Phipps, and Priscilla and Ward Woods co-chaired the June event. New York's young professionals arrived for *An Evening at the Central Park Zoo*, the annual afterparty hosted by the Junior Event Committee. Co-chaired by Elizabeth Belfer, Christopher Leach, and Amanda Starbuck, this benefit welcomed more than 800 guests for cocktails, dining, and dancing to music by DJ Cassidy.



- 27 Chair of the Board Ward Woods, Gala Honoree Art Ortenberg, Gala Honoree Jonathan F. Fanton, WCS President and CEO Steven Sanderson.
- 28 Gala Co-Chairs Faith Coolidge and Peter Coolidge.
- 29 Life Trustee Allison Stern and Leonard Stern.
- 30 Mary Phipps and Life Trustee Howard Phipps, Jr.
- 31 Gala Co-Chair Gillian Hearst Simonds and Trustee Ann Unterberg.
- 32 Trustee Brad Goldberg, Sunny Goldberg, Senior Vice President and Bronx Zoo Director Jim Breheny with a Eurasian eagle owl, Bernadette Peters, Richard Lindy, and Trustee Caroline Sidnam.
- 33 Trustee Virginia Schwerin and Warren Schwerin.
- 34 Preston Bailey.





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EXPLORERS' PARTY

Central Park Zoo hosted WCS's annual family benefit, the *Explorers' Party*, in May. Co-Chaired by Paige Hardy and Kelly Mallon, the party offered guests an exclusive after-hours view of the Allison Maher Stern Snow Leopard exhibit and an educational exploration of wildlife and wild places through many activities.

- 35 *Explorers' Party* Co-Chair Kelly Mallon and Madeleine Mallon.
- 36 Robert, Jennifer, Austin and Scarlett James.
- 37 Tripp Hardy, *Explorers' Party* Co-Chair Paige Hardy, with Ivy, Bennett, Basil, and Tate Hardy.

DINNER BY THE SEA

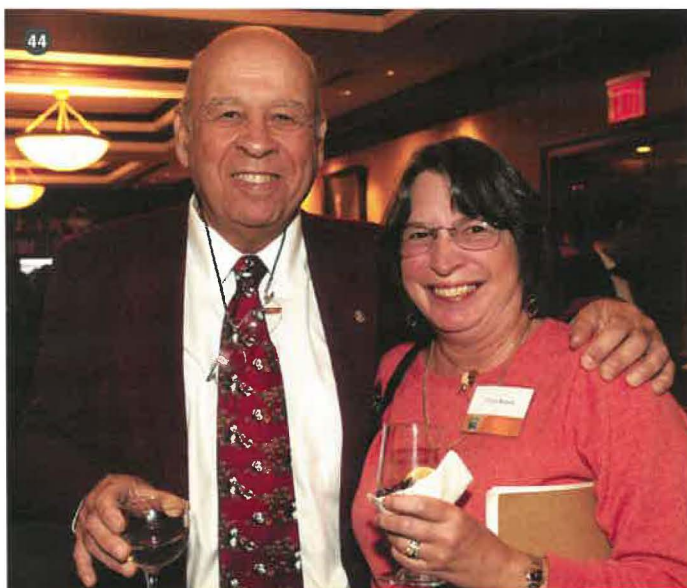
The New York Aquarium in Coney Island hosted the annual *Dinner by the Sea* benefit in September. This year's event honored WCS Trustee Edith McBean for her commitment to WCS's Global Conservation programs and Dr. G. Carleton Ray for his achievement in marine conservation. Guests enjoyed a preview of the aquarium's re-imagined Conservation Hall, followed by a sustainable dinner, and live auction by Sotheby's own Hugh Hildesley.

- 38 *Dinner by the Sea* Event Chair Brian Heidtke and Darlene Heidtke.
- 39 Director of Government and Community Affairs Janet Torres, Program Director, NYC Department of Design and Construction Steven Wong, Cynthia Reich, and Assistant Director for City and State Affairs at the aquarium Nicole Robinson-Etienne.
- 40 *Dinner by the Sea* Honoree Dr. G. Carleton Ray and Vice President and New York Aquarium Director Jon Forrest Dohlin.
- 41 Council Member Domenic M. Recchia, Jr., Trustee and *Dinner by the Sea* Honoree Edith McBean, and WCS President and CEO Steven Sanderson.

WCS CONSERVATION PATRONS EVENTS

In recognition of annual gifts of \$1,500 or more, WCS Conservation Patrons enjoy exclusive events with our curators, field conservationists, and program specialists. *An African Adventure* and *Zooventures* were family celebrations highlighting some of the Bronx Zoo's most popular exhibits. *WCS at Work: Conservation Without Borders*, in New York and Boston, focused on our field staff's efforts and the implications of their work for transboundary conservation management. *Saving the Last of the Wild: Global Priority Species*, in Boston and San Francisco, detailed a WCS initiative to identify and fill the needs of critically threatened populations across their range.

- 42 Katie Bogart during our Patrons Family Celebration: *Zooventures*.
- 43 Liz Groves, Lynn Hall, and Sandy Manzella during *Saving the Last of the Wild: Global Priority Species* in Boston, MA.
- 44 Doris and Bob Benson at *WCS at Work: Conservation Without Borders* in New York.



An African elephant in
Uganda's Murchison Falls
National Park.



POLICY REPORT

WCS'S POLICY AND GOVERNMENT RELATIONS GROUP MADE SIGNIFICANT STRIDES IN 2010 AS THEY ENGAGED POLICYMAKERS TO IMPROVE CONSERVATION OUTCOMES AT THE LOCAL AND STATE LEVELS, IN WASHINGTON, D.C., AND INTERNATIONALLY. THE WCS-SUPPORTED GLOBAL CONSERVATION ACT, A NEWLY INTRODUCED PIECE OF LEGISLATION, COULD CHANGE THE UNITED STATES' STRATEGY TOWARD WILDLIFE CONSERVATION. AT THE GLOBAL TIGER SUMMIT IN ST. PETERSBURG, RUSSIA, WCS ADVANCED ITS TIGER CONSERVATION STRATEGY. EVEN IN A TIME OF ECONOMIC AUSTERITY, OUR TEAM PRESERVED AND INCREASED IMPORTANT BIODIVERSITY AND ENVIRONMENTAL CONSERVATION FUNDING AT THE CITY, STATE, AND FEDERAL LEVELS FOR WCS'S GLOBAL CONSERVATION AND LIVING INSTITUTIONS PROGRAMS.

Through our work in Washington, New York and across the globe, WCS mobilized grassroots supporters, leveraged coalition partnerships, utilized media, and drew on strategic relationships to advance our policy agenda. We continued to build connections and influence key decision makers in Washington around our policy and funding priorities. WCS staff engaged high-ranking executive agency officials—including U.S. Secretary of State Hillary Rodham Clinton, U.S. Agency on International Development Administrator Rajiv Shah, and U.S. Special Envoy for Afghanistan and Pakistan the late Richard Holbrooke—in support of our conservation priorities, focusing on the roles of conservation and effective natural resource

management in strengthening U.S. foreign policy implementation. WCS continued to enhance its relationships with the New York congressional delegation and the chairs of key appropriating committees in Congress. Distinguishing itself amongst its peer institutions, WCS took leadership roles in coalitions of non-governmental organizations such as the Alliance for Global Conservation and the International Conservation Partnership, which supports the mission of the Congressional International Conservation Caucus (ICC). The ICC, with a strong bipartisan membership in Congress, continued to be a vital tool for educating Congress and strengthening U.S. conservation policy.

The WCS Washington Office is committed to supporting the organizational goals of saving wildlife and wild places through two separate means:

- Growing existing U.S. government funding streams for conservation, which directly benefit WCS programs, and exploring opportunities to establish new federal funding streams.
- Pursuing changes in U.S. policy that will create a better political and legal environment for species and landscape protection.



[ABOVE] Nav Dayanand, Kelly Keenan Aylward, Peter Gudritz, Jeff Burrell, Jodi Hilty and Megan Parker meet in -10 degrees Fahrenheit for a policy summit in Bozeman, Montana.

WILDLIFE STAMP

WCS saw several of its top wildlife legislative priorities advance in 2010. We partnered with Representative Henry Brown (R-SC) in leading a broad bipartisan coalition to pass the Multinational Species Conservation Funds (MSCF) Semipostal Stamp Act through both houses of Congress. The law directs the U.S. Postal Service to design and sell a premium first-class stamp that raises money for international wildlife programs of the U.S. Fish and Wildlife Service (USFWS), at no cost to the U.S. taxpayer. The wildlife stamp will be similar to the stamps raising money for breast cancer research. WCS mobilized the public to send more than 28,600 emails to Capitol Hill urging passage of the bill, and we validated the importance of creating a wildlife stamp through media, thought leaders, and press releases. President Obama signed the bill into law in September.

TIGER CONSERVATION POLICY

WCS was a catalyst behind Senator John Kerry's (D-MA) introduction of a resolution in the U.S. Senate supporting tiger conservation at source sites. The resolution called for U.S. leadership on tigers prior to the Global Tiger Summit held in November and draws the attention of policymakers and donor nations to support the conservation actions of tiger range-state countries after the Tiger Summit.

The Senate Resolution was the culmination of a series of Washington briefings and meetings over the year intended to raise the profile of the dire status of wild tigers. In March, WCS President and CEO Steven E. Sanderson gave a lunch presentation for the co-chair offices of the ICC on Capitol Hill and other congressional aides on the plight of tigers and what is needed to save them. John Robinson, executive vice president for conservation and science, participated in a briefing for Capitol Hill staff on tigers that was hosted by the House Natural Resources Committee. Dale Miquelle of WCS-Russia also traveled to Washington to meet with USAID, USFWS, and U.S. Forest Service (USFS) officials to report on the progress of our efforts to conserve wild tigers in the Russian Far East.

WCS policy staff worked to advance the cause of tigers and other species conservation at the Convention on International Trade of Endangered Species (CITES), which held its triannual conference in Doha, Qatar in March. In addition to our efforts to strengthen tiger trade enforcement through CITES, the WCS team worked to enhance CITES trade restrictions for a number of shark and other marine species, as well as improved scientific monitoring of elephants and elephant poaching in Africa and Asia under CITES programs.

U.S. POLICY ON GLOBAL CONSERVATION

WCS spearheaded an initiative with other large

conservation groups to form the Alliance for Global Conservation. The alliance is promoting a new national strategy for global conservation policy through the Global Conservation Act, which was introduced with WCS support in both the House and Senate this past session. The act focuses on pursuing non-traditional supporters of wildlife conservation: the health community, national security interests, the faith-based community, and women. In October, the alliance brought female conservation leaders in the developing world to Washington, D.C. The group of women included Habiba Sarabi, Afghanistan's first and only female provincial governor and a key WCS ally in creating Band-e-Amir National Park—Afghanistan's first protected area. Governor Sarabi and the other women met with U.S. government leaders and media to spread the message that environmental degradation in the developing world disproportionately harms women and that women are more likely to implement sustainable conservation projects that serve the needs of their families and communities.

CLIMATE CHANGE POLICY AND FOREST CARBON MARKETS

With the support of the Packard Foundation, WCS undertook a series of public engagement activities to educate Americans about the important role tropical forests play in combating global warming. WCS hosted the executives of several major corporations—including Duke Energy, 3M, and Unilever—at its field conservation sites in Guatemala's Maya Biosphere. The meeting, led by John Calvelli, WCS's Executive Vice President for Public Affairs, illustrated the technical and policy components of Reducing Emissions from Deforestation and Forest Degradation (REDD+) to support climate change mitigation. WCS also published a REDD casebook depicting lessons learned from early innovative REDD projects, such as Madagascar's Makira project. WCS continued to play an active role in the international climate change negotiations to encourage a strong international decision in support of REDD+. In June 2010, WCS hosted a well-attended side event at the Climate Change negotiations in Bonn, Germany to propose recommendations for resolving some vital outstanding issues in the talks.

WCS worked with other groups to generate recommendations for the new U.S. government Sustainable Landscapes program, which is the main component of the U.S. "fast start" climate change funding for REDD+. The program seeks to create an efficient system for helping countries deliver REDD+ outcomes and to move financial resources to the field quickly. The Obama Administration has incorporated many of our rec-

ommendations into its Sustainable Landscapes strategy, and WCS expects continued engagement with the U.S. and partner countries in support of forest carbon markets and national climate policy programs that also enhance biodiversity outcomes.

CREATING NEW FEDERAL FUNDING STREAMS FOR SPECIES CONSERVATION

WCS made a major push for the enactment of the Great Cats and Rare Canids Conservation Act. The House passed the bill. In July, WCS and partners released "The Fading Call of the Wild," a report detailing the perilous status of big cats and wild dogs. A Capitol Hill briefing on the report and an opinion piece in *The Hill* newspaper co-authored by Kelly Keenan Aylward, WCS's Washington office director, called for establishing a new USFWS grant fund to support the conservation of these canine and feline species.

In January, James Deutsch, executive director of WCS-Africa, testified before the House Natural Resources Subcommittee on Insular Affairs, Oceans & Wildlife in support of the re-authorization of the Great Ape Conservation Act. The act is a source of critical conservation funding for large primates and their habitats.

U.S. GOVERNMENT FUNDING FOR BIODIVERSITY AND CLIMATE

The federal government committed a record amount of funding for conservation and biodiversity efforts in Fiscal Year 2010. The USAID Biodiversity Program received \$205 million in total, including \$20.5 million for the Congo Basin Forest Partnership; \$15 million for the Andean Amazon; \$10 million for the Brazilian Amazon; \$7.5 million for the Coral Triangle; \$5 million for the USFWS International Programs; and \$1 million for the Maya Biosphere.

Congressional appropriators funded the Global Environment Facility at \$86.5 million and the Multinational Species Conservation Funds (MSCF) at \$11.5 million. The MSCF are directed toward programs for elephants, marine turtles, great apes, rhinos, and tigers.

FY2010 also marked the beginning of the U.S. government's \$6 billion in commitments, over a three year period, for climate financing for mitigation and adaptation. Year one of the commitment (the enacted FY2010 federal budget) included \$244 million for adaptation programs and \$232 million for Sustainable Landscapes to reduce emissions from deforestation and land degradation (REDD+) through bilateral and multilateral channels. WCS will continue to work with congressional and administration officials, as well as the World Bank and international agencies, for the effective implementation of these important programs.

QA

STEVE ZACK



STEVE ZACK IS A CONSERVATION SCIENTIST WITH WCS-NORTH AMERICA. A DEDICATED BIRD RESEARCHER, STEVE DISCUSSES CONSERVATION IN THE ARCTIC, WHAT THE BIRDS IN ALASKA MIGHT SAY ABOUT THE PACE OF CLIMATE CHANGE, AND HIS VERY FIRST BIRD GUIDE IDENTIFICATION—A KESTREL!

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WILDLIFE CONSERVATION SOCIETY ANNUAL REPORT 2010

WHAT BROUGHT YOU HOME TO THE WEST AFTER WORKING ON THE EAST COAST FOR SO LONG?

I left my Lecturer of Biology position at Yale in the early nineties to get married to my wife Shawne and returned to the West, with the knowledge that WCS was developing a North America program. In California, I completed wildlife conservation projects and became the first full-time scientist hired by the new program. Soon we moved to Oregon, my home state, and I built up interesting conservation activities within our western forests to understand fire and wildlife issues, and separately, how beaver reintroduction creates new habitat for wildlife.

WHAT DREW YOU TO BIRDS AS A RESEARCH SUBJECT?

Birds continue to compel me. They see color (all but primates among our mammalian kin see only black and white) and most are diurnal (again, most our mammalian kind are tiny nocturnal dwellers). They fly, like we all aspire to.

They are diverse, conspicuous, and endlessly fascinating. I have chased birds around the world on research dollars. My professional life and my personal life don't really differ: I study Arctic birds, I watch birds at my home feeder. Shawne and I go for walks, and I pause to watch birds behave.

WHAT IS UNIQUE ABOUT DOING CONSERVATION WORK IN ARCTIC ALASKA?

Climate change and energy development are pressing on a huge landscape where the fundamental decisions about wildlife conservation and land protection are going to be made in the next few years. It is a dramatic and crucial time for wildlife conservation on top of the world, and it's exciting and daunting to be in the mix of decisions, scientific and political, in that amazing part of the world.

WHAT MAKES THE ARCTIC SUCH AN IMPORTANT WILD PLACE?

In addition to wildlife species like polar bear, walrus, and muskox, which are native to the



United States, bird species from every continent and every ocean come to nest and rear their young in the wetlands of Arctic Alaska. There are terns from Antarctica, godwits from Australia, dunlin from Asia, sandpipers from Patagonia, and so on. Add to that the long migrations of great caribou herds to these same wetlands to calve their young, and you begin to understand why the Arctic is an immense nursery for wildlife.

HOW HAVE YOU BROUGHT DIVERSE ARCTIC CONSTITUENCIES TOGETHER FOR CONSERVATION?

The challenge has been to earn the trust of oil companies, federal scientists, and environmental groups, and then create a joint research investigation into how existing development is affecting wildlife. In the Prudhoe Bay oilfields, we examined how nesting migratory shorebirds and songbirds were affected by nest predator species like Arctic fox, raven, and gulls, whose populations had all increased due to industry. That study proved to be the first examination of the footprint of oil development on wildlife.

WHAT DID THE BIRDS YOU SAW IN THE ARCTIC TELL YOU ABOUT THE LANDSCAPE?

The migratory birds we study there are the proverbial “canaries in the coal mine.” I was quite surprised to see both robins and white-crowned sparrows that far north. These species are signals of the changing Arctic, one that is being reshaped with invasions from the south. The robins and the sparrows are settling in, with a growing presence of shrubs brought on by the warming climate. I see these birds every day in Oregon. That they are now part of the Arctic is a signal of larger changes coming, and these changes bode poorly for Arctic wildlife.

WHAT ELSE HAVE YOU NOTICED REGARDING CLIMATE CHANGE'S IMPACT ON THE REGION?

Everyone is aware how the sea ice is melting, yet few recognize how melting is also happening with the permafrost on land. This is the frozen

soil that shapes Arctic geology and its habitats. With a warming Arctic, the shorelines are softening. Foothills in the interior are showing evidence of slumping and erosion. The warming is also changing the seasons. Our breeding birds are nesting more than a week earlier than in the 1980s. Climate change in the Arctic is happening at twice the rate of the rest of the world. It is truly “ground zero” for climate change.

OVER THE SUMMER YOU TRAVELED BY RAFT DOWN THE UTUKOK RIVER WITH WCS PRESIDENT AND CEO STEVEN SANDERSON AND OTHER COLLEAGUES. WHAT DID YOU LEARN?

Our expedition down this remote river provided a daily exposure to the migration of thousands of caribou and the many predators that follow them, including wolves and grizzly bears. So the daily lesson was one of being humbled by the immense landscape. We learned through our daily engagement with the rhythm and flow of the river why this landscape needs to be protected. I saw my first wolverine, and the wolverine might well have seen its first people. Such places are few and worth the efforts to secure a future for the wildlife there.

WHEN DID YOU FIRST BECOME INTERESTED IN BIOLOGY?

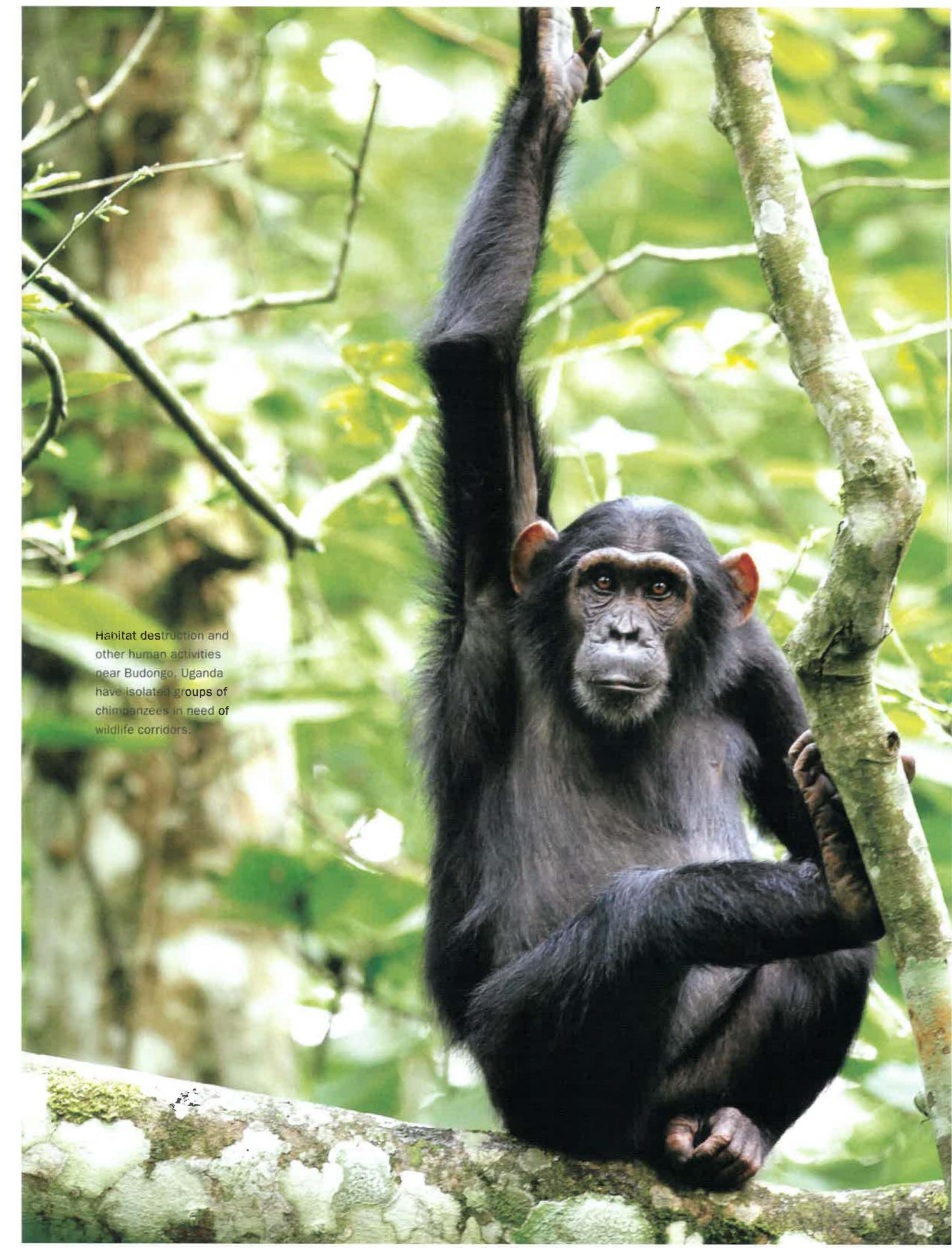
I always enjoyed the outdoors as a kid but was unaware of any science career not involving a lab coat and test tubes. At Oregon State, everything became clear. I chanced into biology classes and immediately knew I wanted a career studying nature. One day I was a listless ex-basketball player, the next I was a would-be naturalist. I bought a field guide to birds and started on page 1 to identify the bird in front of me. Loon? No. Grebe? No. Finally, kestrel —on page 60. I was insatiable, learning all of Oregon's trees and all the vertebrates. Then came ecology, evolution classes, and a whole new world view. I haven't ever looked back.



[OPPOSITE] The Ruddy turnstone is one of many migratory bird species that depend on the ecosystems of Alaska.

[ABOVE LEFT] Steve works in Arctic Alaska, where he examines the effects of development and climate change on birds and other wildlife.

[ABOVE RIGHT] Steve near Teshekpuk Lake within the National Petroleum Reserve-Alaska.

A chimpanzee is shown in a forest setting, hanging from a vertical tree branch with its right arm. The chimpanzee is looking directly at the camera with a neutral expression. Its left arm is resting on a horizontal branch in the foreground. The background is a dense, out-of-focus green forest. The chimpanzee has dark brown fur and a lighter brown face.

Habitat destruction and other human activities near Budongo, Uganda have isolated groups of chimpanzees in need of wildlife corridors.

PROJECTS

IN THE FIELD & PARKS

CHALLENGES &

CENTRAL INITIATIVES

Species Conservation Planning

Task Force, IUCN/Species Survival Commission.

E. Sanderson, J. Robinson, S. Hedges, R. Woodroffe

Strategic planning for species conservation programs.

E. Bennett, J. Robinson, R. Cook, M. Wrobel, E. Sanderson, and others

Zoological Society of London collaboration.

M. Hatchwell
A comparative global analysis of how national economies influence areas of conservation priority.

E. Sanderson, K. Fisher

Greenprints: Envisioning landscapes that work for people and for nature,

E. Sanderson, K. Fisher (with Maya Lin)
Protected Areas Coordination with Convention on Biological Diversity.

L. Krueger, M. Hatchwell
Ecological and social implications of low-density, exurban development.

H. Kretser, T. Rosen, S. Reed

Partnering with Indigenous

Peoples. S. Matthews, J. Hilty

Corridor Conservation Initiative.

K. Aune

Climate Change Initiative,

M. Cross, E. Rowland

REDD Policy Development.

L. Krueger, T. Stevens, M. Arpels, M. Hatchwell, K. Aylward

Biodiversity co-benefit standards for carbon projects.

M. Arpels, R. Victurine, L. Krueger, T. Clements, C. Holmes

Design and development of

site-based forest carbon projects. T. Stevens, M. Arpels, M. Johnson, R. Victurine, T. Clements, M. Hatchwell, M. Varese, L. Krueger

Wildlife Friendly Product

Development. H. Crowley
R. Victurine

Business and Biodiversity Offsets Program policies and standards.

R. Victurine

Market-based Conservation

Initiatives. H. Crowley

Payments for Ecosystem Services,

C. Ingram, M. Masozera, R. Victurine

Conservation Trust Fund

Investment Survey. R. Victurine

Incentive Payments for

Conservation. T. Clements, R. Victurine

The Conservation and Human

Rights Initiative. K. Redford, M. Painter, D. Wilkie

Conservation Leadership

Programme. W. Banham, L. Duda
Graduate Scholarship Program.

W. Banham

MBAs for Conservation Program.

W. Banham

AFRICA

ANGOLA

AHEAD (Animal & Human Health

for the Environment and Development) – Kavango-Zambezi Transfrontier Conservation Area Program.

M. Atkinson, S. Osofsky, M. Kock

BOTSWANA

AHEAD (Animal & Human Health

for the Environment and Development) – Kavango-Zambezi Transfrontier Conservation Area Program.

M. Atkinson, S. Osofsky, M. Kock

CAMEROON

Status and conservation of Cross

River gorillas in the Cameroon Highlands. A. Nicholas, Y. Warren
Management of the Kagwene

Gorilla Sanctuary. A. Nicholas,

Y. Warren, A. Nchanji

Management of Mbam-Djerem

National Park. R. Fotso, B. Fosso, B. Pouomegne

Large mammal surveys and

bushmeat studies around

Mbam-Djerem National Park.

R. Fotso, F. Maisels

Support for Law enforcement of

bushmeat and illegal hunting in and around the Mbam

Djerem National Park. R. Fotso, B. Fosso, D. Nzouango

CAMRAIL: Support of law

enforcement of bushmeat

transport on the railway. R. Fotso

Wildlife and Human Impact

Monitoring, Mbam-Djerem

National Park. F. Maisels, R. Fotso

Wildlife and Human Impact

Monitoring, Takamanda Planned

National Park. F. Maisels, Y. Warren,

H. Mboh, A. Nicholas, R. Fotso

Advice on general monitoring

and survey methodology to

WCS-Cameroon. F. Maisels

Management of Deng Deng

National Park. R. Fotso

Status and conservation of the

western lowland gorilla in Deng

Deng National Park. R. Fotso,

Y. Warren, F. Maisels

CENTRAL AFRICAN REPUBLIC

Dzanga forest elephant demographics and social dynamics. A. Turkalo

Research on the use of elephant infrasound as a method of censoring in forests (Cornell University). A. Turkalo

CONGO REPUBLIC

Nouabalé-Ndoki National Park Project, Nouabalé-Ndoki National Park (NNNP): T. Breuer, D. Dos Santos

Nouabalé-Ndoki National Park TEAM Project. P. Boundja, T. O'Brien

Goulougo Triangle Great Ape Project (NNNP). D. Morgan, C. Sanz, T. Breuer, D. Dos Santos

Mbeli Bai, Gorilla Social Dynamics Project (NNNP). T. Breuer, D. Dos Santos

Mondika Gorilla Habituation Project. P. Mongo, T. Breuer

Conkouati-Douli National Park Project. H. Vanleeuwe, G. Bonassidi

Bateke Plateaux Conservation Project. N. Mabiala, D. Rakotondranisa, P. Telfer

Bateke Plateaux Elephant Project. C. Inkamba, N. Mabiala

Batéké Plateaux Zanaga Mining Project. L. Johnson, P. Telfer, R. Victorine

Nouabalé-Ndoki National Park Buffer Zone Project. Tomo Nishihara, J.C. Dengue

Odzala-Kokoua National Park Buffer Zone Project. R. Molanga, P. Ngeumbe

Lac Tele Community Reserve Project. F. Twagirashyaka, D. Essenie

Great Ape Health Program. K. Cameron, P. Reed, A. Ondzie, B.Z. Nkouantsi, T. Breuer, M. Breuer-Ndoundou Hockemba, P. Mongo

Building capacity to identify pathogens threatening great apes of Central Africa. K. Cameron, T. Reed, B.Z. Nkouantsi, L. Miguel

Protecting Central Africa's great apes against the Ebola virus. T. Reed, K. Cameron, A. Ondzie, B.Z. Nkouantsi

Expanding Ebola surveillance, response and preventive measures to protect great apes in northern Republic of Congo. K. Cameron, T. Reed, A. Ondzie, B.Z. Nkouantsi

Great ape health assistance to John Aspinall Foundation (Gorilla Protection Program). K. Cameron, A. Ondzie

Great ape health assistance to Jane Goodall Institute (Tchimpounga Chimpanzee Rehabilitation Centre). K. Cameron

Ebola Surveillance and Response Measures for Great Apes in Northern Republic of Congo. K. Cameron, T. Reed, A. Ondzie, B.Z. Nkouantsi

Wildlife Sampling to Inform Risk-Based Predictive Modeling in the Greater Congo Basin. K. Smith, K. Cameron, T. Reed, M. Kock, W. Karesh

Comparative ape parasitology. T. Reed, T. Gillespie K. Jeffery, K. Cameron, S. Ratiarison, C. Sanz, D. Morgan

USAID Emerging Pandemic Threats PREDICT Program. K. Cameron, T. Reed, A. Ondzie

CHAD

Conservation of and law enforcement monitoring for the elephants of Zakouma National Park. S. Lamoureaux, J.M. Fay, D. Potgieter

DEMOCRATIC REPUBLIC OF CONGO

Okapi Faunal Reserve and Community Management Zoning Project. R. Mwinyihali, E. Brown, B. Ntumba

Ituri Forest Research and Training Center (CEFRECOCF). R. Mwinyihali

Botanical exploration of the Okapi Faunal Reserve. C. Ewango

Healing the Rift: Peace-building in and around Protected Areas in Democratic Republic of Congo's Albertine Rift (Kahuzi-Biega National park and Itombwe components). F. Amsini, D. Kujirakwinja

Supporting the conservation of Mt Hoyo and development

of a corridor to Virunga Park. P. Shamavu, D. Kujirakwinja, A. Plumtre

Biodiversity surveys of Itombwe massif for planning zoning of a new protected area. F. Amsini, P. Shamavu, D. Kujirakwinja, A. Plumtre

Socio-economic surveys in Misotschi-Kabogo region of SE DR Congo and establishment of new protected area. A. Bamba, D. Kujirakwinja, A. Plumtre

Large mammal surveys in Kahuzi Biega National Park: A. Plumtre, D. Kujirakwinja

Itombwe Massif Conservation Project: Delimitation and zoning of the Itombwe Natural Reserve for protection of great apes. R. Tshombe, D. Kujirakwinja

Preliminary surveys of Chimpanzees in Eastern Ituri Forest. J-R Makana

Developing a park wide monitoring system with rangers in Virunga National Park. D. Kujirakwinja, A. Plumtre, P. Shamavu

Support to park management planning, park management and transboundary collaboration with Uganda. D. Kujirakwinja

Large Mammal surveys in the Salonga Landscape. I. Liengola, F. Maisels

Conserving endangered Bonobos in the Tshuapa-Lomami-Lualaba Landscape, Democratic Republic of Congo. I. Liengola, B. Maisels

Land Use Planning, Conservation and Forestry in the Ituri Landscape. R. Mwinyihali, E. Brown, J-R Makana

Floristic Inventories and Measurement of Carbon in Salonga National Park and Surrounding Forests. J-R Makana, C. Ewango

ETHIOPIA

Assessing Effects of Human Activity on Gelada (*Theropithecus gelada*) Populations in Simien Mountains National Park. C. McCann, J. Beehner, T. Bergman

GABON

Developing community-based protection of a remnant elephant population at three bai's in and around Batéké National Park. S.N. Esseng, Olivia Scholtz

Ivindo-Chaillu Forest Landscape: Protecting the forest giants of Ivindo National Park though land-use planning, enforcement, and outreach. F. Lepemangoye

Ivindo-Chaillu Forest Landscape: Protecting an exceptional priority area for great apes though management support to Lope National Park. G. Abitsi

Ivindo-Chaillu Forest Landscape: Developing community-centered conservation in the refuge forests of Waka National Park. M. Mengue

Ivindo-Chaillu Forest Landscape: Pushing for best-practice wildlife management in forest concession of the Lope-Chaillu and Ivindo priority areas for great apes. T. Rayden

Evaluation of the impacts of selective logging on forest carbon for climate change mitigation. M. Starkey, H. Memiaghe

Congo Basin Coast: Where forest giants meet ocean giants – protecting the Loango National Park. R. Starkey, N. Moukourou

Congo Basin Coast: Conservation of ocean giants in Mayumba National Park, the first marine national park in the Gulf of Guinea. R. Zanre

Congo Basin Coast: Conservation of critical sites for Leatherback and Green Turtles. A. Formia

Conservation Evaluations of two potential new protected areas: Mayombe and Wonga-Wongue-Evaro. M. Starkey, H. Memiaghe

Improving conservation effectiveness by developing a regional training centre for conservation professionals in Lopé National Park. E. Mazeyrac, R. Calaque

Deployment of MIST as tool to enhance law enforcement planning and monitoring. R. Starkey

Comparative ape parasitology.
T. Reed, T. Gillespie K. Jeffery,
K. Cameron, S. Ratiarison,
C. Sanz, D. Morgan

Advances in protecting apes
against Ebola. T. Reed,
K. Cameron, E. Leroy, T. Giesbert

Wildlife Sampling to Inform
Risk-Based Predictive Modeling
in the Greater Congo Basin.
K. Smith, K. Cameron, T. Reed,
M. Kock, W. Karesh

Health and disease assessment
of the West African Manatee.
K. Cameron

KENYA

Laikipia Predator Project:
Conservation of large
carnivores in livestock areas,
mitigating human-predator
conflict. L. Frank

Kilimanjaro Lion Conservation
Project. L. Frank

Lion Guardians. L. Frank, L. Hazzah

Conservation of African wild dogs
in the Samburu-Laikipia area.
R. Woodroffe

Wildlife Communities in Human-
Dominated landscapes.
M. Kinnaird, T. O'Brien

Laikipia Plateau/Ewaso
Ecosystem aerial wildlife
surveys. M. Kinnaird, T. O'Brien

Laikipia Elephant Program.
M. Kinnaird, T. O'Brien

MADAGASCAR

Réseau pour la Biodiversité de
Madagascar (ReBioMa).
C. Kremen, A. Razafimpahanana,
A. Rakotomanjaka,
R. Rajaoson, T. Tantely,
R. Ratsisetraina, T. Allnutt

Capacity building and training
program; education and
training modules for
conservation biology for
university and government
institutions. T. Rahagalala,
L. Andriamampianina,
S. Soloarivelo

Buisness and Biodiversity Offset
Program of the Ambatovy
mining Project. A. Andrianarimisa,
C. Holmes

Research, ecological monitoring,
and training. A. Andrianarimisa,
V. Andrianjakarivelo, L. Gaylord,
L. Andriamampianina

Climate Change Planning inside
and outside protected area
(REBIOMA). A. Razafimpahanana

Antongil Bay - Consolidation of
an integrated strategy for
conservation & sustainable NR
use in Antongil Bay Landscape.
C. Holmes, H. Randriamahazo

Promote and enhance biodiversity
conservation in and around
Masoala National Park.
L. Andriamampianina,
J. Jaozandry, C. Holmes

Masoala National Park, School
Project. L. Andriamampianina,
J. Jaozandry, C. Holmes

Improving protected area
management and species
conservation in Masoala
National Park.
L. Andriamampianina,
J. Jaozandry, C. Holmes

Projet d'appui pour la mise en
place de la ceinture verte
autour du site de conservation
de Makira. L. Andriamampianina,
J. Jaozandry, C. Holmes

Conservation in situ et ex situ de
la biodiversité de la zone de
Masoala et à la sensibilisation
et à l'éducation de la
population Malagasy – Phase
II. L. Andriamampianina,
J. Jaozandry, C. Holmes

Protection of Makira Forests
through the creation of a new
conservation site. C. Holmes,
L. Andriamampianina,
J. Jaozandry, L. Gaylord

Makira Project Community
School. C. Holmes,
O. Rasoamandimby

Makira: Social Marketing Program
for Child, Maternal, and
Reproductive Health Products
and Services. C. Holmes

Conservation of humpback
whales and marine mammals
in Antongil Bay. H. Rosenbaum,
Y. Razafindrakoto, S. Cerchio,
N. Andrianarivelo

Development of a network of
marine protected areas on
the western coast of
Madagascar to anticipate
and mitigate the impacts
of Climate change on coral
reefs. H. Randriamahazo,
B. Randriamanantsoa,
F. Ramananjatovo

Climate Change adaptation for
conservation in Madagascar-
Marine Components-
H. Randriamahazo, L. Gaylord

Mise en place de 50 Réserves
Marines dans la zone Salary
Sud et Morombe, Région
Sud Ouest de Madagascar.
H. Randriamahazo,
B. Randriamanantsoa,
F. Ramananjatovo

Marine and coastal zone
management in the Antongil
Bay. H. Randriamahazo,
B. Randriamanantsoa,
S. Randriamaharavo

Andavadoaka Marine Protected
Area Project. H. Randriamahazo,
F. Ramananjatovo

Conservation of the radiated
tortoise and spider tortoise
and the habitat in southern
Madagascar. H. Randriamahazo,
R. Fanazava

Conservation Cotton in
Madagascar: Creating a triple
bottom line with benefits for
local communities, local and
national economy, and globally
important environment.
H. Crowley, N. Razafintsalama,
L. Andriamampianina, C. Holmes,
J. Walson, H. Lederlin

A. Lainirina, R. Ezekiel

Assessment of Camera Trapping
Technology in Monitoring
Carnivores of the Eastern
Humid Forests of Madagascar.
C. McCann, J. Moody

Capacity building for ex situ
amphibian conservation in
Andasibe, Madagascar. J. Pramuk

Evaluation of Health Status of
Wild and Captive Radiated
Tortoises. B. Raphael, B. Leahy

MOZAMBIQUE

AHEAD (Animal & Human Health
for the Environment And
Development) – Great Limpopo
Transfrontier Conservation Area
Program. S. Osofsky, M. Kock,
D. Cumming, M. Murphree and
regional colleagues

Wildlife Veterinary assistance to
the Republic of Mozambique,
World Bank Program under
DNAC (TFCA program) and
DNSV. M. Kock

NAMIBIA

AHEAD (Animal & Human Health
for the Environment And
Development) – Kavango-
Zambezi Transfrontier
Conservation Area Program.
M. Atkinson, S. Osofsky,
M. Kock

NIGERIA

Status and conservation of Cross
River gorillas in southeastern
Nigeria. A. Dunn, I. Imong

Management of the Mbe
Mountains community wildlife
sanctuary. A. Dunn

Status and conservation of
elephants in Yankari Game
Reserve. A. Dunn

Lion survey of northern Nigeria.
A. Dunn

RWANDA

Supporting Rwanda Development
Board/Conservation and
Tourism policies development.
(Wildlife Policy and Biodiversity
Policy). N. Barakabuye

Socio-economic Survey of
population surrounding
Nyungwe National Park.
N. Barakabuye, I. Buvumuhana

Intensive Biodiversity Survey of
Nyungwe National Park.
N. Chao, N. Ntare,
F. Mulindahabi, N. Barakabuye

Primate habituation and
eco-tourism development in
Nyungwe National Park.
N. Chao, J. Easton, N. Ntare,
F. Mulindahabi, N. Barakabuye

Building conservation capacity
and training for Park personnel
in tourism, GIS, ranger-based
monitoring and data collection.
N. Barakabuye, N. Chao,
F. Mulindahabi

Transboundary coordination
between Rwanda and Burundi
in the Nyungwe-Kibira
Landscape. N. Barakabuye

Development of Strategic
Management Plan for Kibira
National Park. N. Barakabuye

Long term biodiversity monitoring
for conservation planning and
park management.
F. Mulindahabi, N. Ntare,
N. Chao, A. Plumptre

Educators in Rwanda use WCS-developed playing cards to teach others about threats to chimpanzees.



Community Conservation and Outreach including sustainable income generation and alternative livelihoods, alternative energy sources, and beekeeping. N. Barakabuye, I. Buvumuhana, V. Hakizimana, N. Chao

Forest restoration and carbon offset programs. N. Barakabuye, F. Mulindahabi, N. Ntare

Park financing mechanism. M. Masozera, R. Victorine, N. Barakabuye

Interpretative Strategy for Volcanoes National Park. J. Gwynne, N. Gran, N. Barakabuye

Primate habituation and eco-tourism development in Nyungwe National Park. I. Munanura, N. Chao, J. Easton, N. Ntare, F. Mulindahabi, N. Barakabuye

SOUTH AFRICA

AHEAD (Animal & Human Health for the Environment And Development) - Great Limpopo Transfrontier Conservation Area program. M. Kock, S. Osofsky, D. Cumming, M. Murphree and regional colleagues.

Elephant satellite telemetry regional work with Conservation Ecology Research

Unit (CERU), University of Pretoria. M. Kock, R. van Arde

SOUTHERN SUDAN

Southern Sudan Country Program: P. Elkan, S. Elkan, F. Grossmann, J.M. Venus, M. Carbo Penche, P.P. Awol, J. Kilonzi, J. Juan, T. Kamau, R. Craig, P. Alexander, C. McQueen

Boma-Jonglei Landscape Conservation Project: P. Elkan, S. Elkan, F. Grossmann, J.M. Venus, M. Carbo Penche, M. Wieland, M. Lopidia, S. Gain, A. Schenk, P.P. Awol, C. Tiba, J. Lita, J. Juan, T. Kamau, P. Alexander, R. Craig

Aerial Surveys and Monitoring of wildlife-livestock, and human activity in and around proposed and existing protected areas of Southern Sudan. F. Grossmann, P. Elkan, P.P. Awol, J.M. Venus, L. Jackson, C. Tiba Lwanga, P. Demitri

Investigation of elephant movements and antelope migrations. F. Grossmann, P. Elkan, P.P. Awol, J.M. Venus, M. Kock, A. Gwake

Socio-economic Surveys and Community Livelihoods in the Boma-Jonglei Landscape. M. Wieland, M. Lopidia, P. Moses, M. Taban, L. Carver

Land-use and conservation planning for the Boma-Jonglei Landscape. R. Craig, P. Elkan, J.M.Venus, P.P.Awol, F. Grossmann, A. Schenk, M. Wieland, M. Ring, L. Minasona, D. Wilkie, R. Victorine, M. Kock

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QA

RACHEL GRAHAM

RACHEL GRAHAM LIKES BIG FISH. AS A FIELD RESEARCHER, SHE HAS WORKED IN THE WCS OCEAN GIANTS PROGRAM SINCE 2004. WHILE KEEPING BUSY SURVEYING MARINE LIFE AND SAVING WHALE SHARKS FROM BEING STRUCK BY OVERZEALOUS TOURISTS AND COMMERCIAL SHIPS, RACHEL STILL FINDS TIME TO SWIM WITH RAYS AND RAISE A SMALL FAMILY.

2010 HAS BEEN A BUSY YEAR FOR YOU. TELL US ABOUT ONE OF YOUR MANY MAJOR PROJECTS.

Every year just seems to get busier. This year, I finalized our annual surveys on the goliath grouper, the world's second largest grouper (it grows up to eight feet), in a key nursery site in southern Belize. We have found that individuals move out of the nursery areas in order to populate other areas in Belize, Mexico and Honduras. This makes the site a potentially critical source for the species in the Mesoamerican Barrier Reef. We're folding this project's results into a management plan for the endangered species and into continued outreach to promote their conservation.

WHAT FIRST DREW YOU TO STUDY SHARKS?

My mother reminded me recently that I once came home in tears from Montessori school, distraught because nobody wanted to talk about piranhas and sharks. I was four. I have always been curious about animals no one else seems to like: snakes, bats, scorpions, and such. Sharks are a natural evolution of my caring for marginalized species. Working with whale

sharks was serendipitous. They showed up in my life as I was investigating reef fish. They just happened to feed on the fish spawn. Little was known about this species, so I focused my curiosity and interest on the world's largest fish and later its toothy cousins.

WHAT CONTINUES TO FASCINATE YOU ABOUT WHALE SHARKS AND SHARKS, IN GENERAL?

I find it amazing that sharks have existed for millions of years, yet we know so little about them, their life cycle, reproductive and sensory biology, and spatial ecology. At this point, we're losing them to uncontrolled exploitation faster than we can find out enough about them to establish conservation measures. Whale sharks are good PR for sharks due to their docility, predictability, and relative ease of study. Many questions that we have about the spatial ecology of sharks and other megafauna may very well be answered by studying whale sharks.

DESCRIBE THE CHALLENGES AND REWARDS THAT YOU FACE CARRYING OUT YOUR WORK?

Changing attitudes toward sharks is a constant struggle, yet my biggest challenge is working on a shoestring budget with a small team in several ocean basins. Juggling outreach, education, advocacy, field work, analyses, writing, and more writing, and of course, fundraising (and a young family) certainly keep me on my toes. On the other hand, working with sharks and rays is a humbling and awe-inspiring experience that puts my life in its proper perspective. It helps me to realize what is truly important. If only they could talk, imagine the tales these creatures would tell us of the oceans they navigate and the threats they avoid to survive.

HOW DOES THE USE OF REMOTE SENSING TAGS FIGURE IN YOUR RESEARCH?

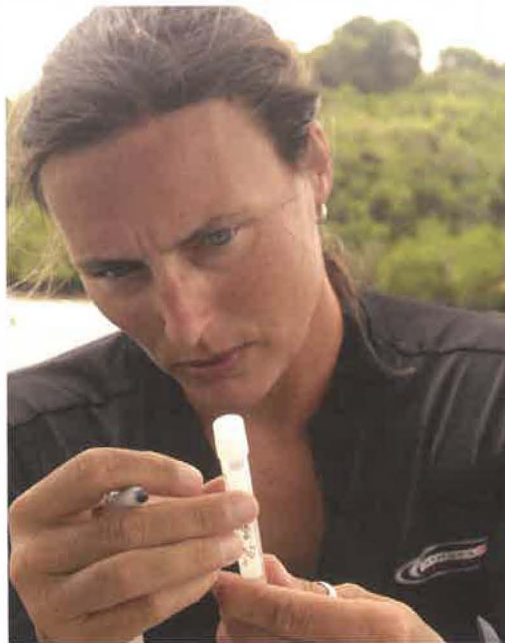
In 2009 and 2010, I placed satellite tags on the world's largest aggregation of whale sharks, over 420 animals. The tags help us understand the size of this group as well as their patterns of movement—both in the western Caribbean, where they feed on little tunny spawn, and in the southern Gulf of Mexico, where they feed on zooplankton. The tags will also help me develop a strategy to divert commercial shipping away from the group during their main clustering period, between June and September.

WHAT DO YOU FIND MOST INTRIGUING ABOUT WHALE SHARKS?

One of the driving questions that I'm desperately trying to answer is how whale sharks, and in fact many other highly migratory fish, are capable of arriving at an ephemeral food source just when it becomes available. They often navigate hundreds or thousands of kilometers to get to the dinner table. How do they know where to go? How do they time their arrival to the food pulse? Using satellite and acoustic tags and monitoring environmental parameters and the water's chemistry are some of the primary means by which I'm trying to answer this question.

WHAT IS THE GREATEST THREAT TO WHALE SHARKS TODAY, AND WHAT ARE THE MOST PRESSING ACTIONS NEEDED FOR THEIR CONSERVATION?

I see whale sharks as iconic flag bearers for sharks and rays. One key threat to sharks and rays are the fin and medicinal markets in Asia. Mitigating demand and curbing exports of shark products to these markets is key to helping sharks survive. Equally critical are the protected areas and sanctuaries encompassing critical habitats, where sharks are safe from fisheries for part or all of their life cycle. Although nets and longlines are major threats to all



elasmobranchs [sharks, skates, and rays], they are particularly destructive gears for toothy sharks, as whale sharks do not take bait.

HOW HAVE YOU IMPACTED THE SHARK AND RAY SPECIES IN THE MARINE LANDSCAPES YOU STUDY?

I am proud of the work we've done to raise awareness for sharks in general, both in Belize and in several other countries; to change attitudes of several former shark fishers, turning some of them into shark conservationists; to get whale sharks protected in Belize and provide technical support and expertise to partners seeking to research sharks and rays; and to promote sustainable whale shark tourism in several locations worldwide. Key to changing attitudes toward sharks in the region will be continuing outreach efforts with a range of age groups.

WHAT HAS BEEN YOUR GREATEST WILDLIFE MOMENT DURING YOUR TIME WITH WCS?

One special moment occurred during a swim with a manta ray in the Flower Garden Banks National Marine Sanctuary. Above the beautiful reefs, an animal I had just tagged came back to investigate me, and we swam together. It was hard to keep up so I would stop, and amazingly, the animal waited for me. We swam together, and when I tired, it would stop again. This went on for 45 minutes until I finally had to swim back to the boat. The manta circled the boat for another 20 minutes. I apologize for anthropomorphizing, but it seemed to express, "Wait, where are you going? Don't go!"



[OPPOSITE] WCS conservationists work to understand the movement patterns of the whale shark, the world's largest fish, in the Caribbean.

[ABOVE] Rachel diving off northern Madagascar, where she examined and tagged whale sharks.



Baby mandrill with mother
in the Bronx Zoo's Congo
Gorilla Forest exhibit.

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THE WILDLIFE CONSERVATION SOCIETY (WCS) EXTENDS ITS APPRECIATION TO THOSE WHO HAVE GIVEN TO PROTECT WILDLIFE AND WILD PLACES ACROSS THE GLOBE. THE DONORS LISTED HERE ENABLE WCS TO LEAD THE WAY IN CONSERVATION EFFORTS WORLDWIDE.

WCS is thankful for the generosity of the Liz Claiborne and Art Ortenberg Foundation for its support of our tiger conservation program in Asia. We also appreciate the foundation's grants for our programs across Asia, Latin America, and the Arctic.

This year WCS again appreciates the John D. and Catherine T. MacArthur Foundation for its support of our global conservation programs. Grants received this year addressed the effects of climate change on the western coast of Madagascar and in the Colombian Andes. This foundation also supported our marine work in Fiji's Vatu-i-Ra Seascape.

WCS is grateful to the Gordon and Betty Moore Foundation for its support this year of our conservation work in the Amazon. The foundation's commitment allows us to sustain our efforts protecting critical biological diversity strongholds throughout the region.

WCS appreciates the gift from Margaretta Taylor to the Bronx Zoo. Her gift will help WCS continue its 111-year tradition of excellence at the zoo, connecting millions of visitors to the power of nature.

We offer gratitude to Joan O.L. Tweedy for her support of WCS. Her gifts this year helped provide care to the gorillas within the Bronx Zoo's Congo Gorilla Forest exhibit and supported the ongoing operation of the Madagascar! exhibit, also at the Bronx Zoo, connecting millions of visitors to the power of nature.

In addition, WCS is thankful of the following friends who have made leadership gifts this year:

- Critical Ecosystem Partnership Fund for its gifts in support of our global conservation programs.
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A hippopotamus emerges
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A grizzly bear on the banks of the Utukok River in Arctic Alaska.



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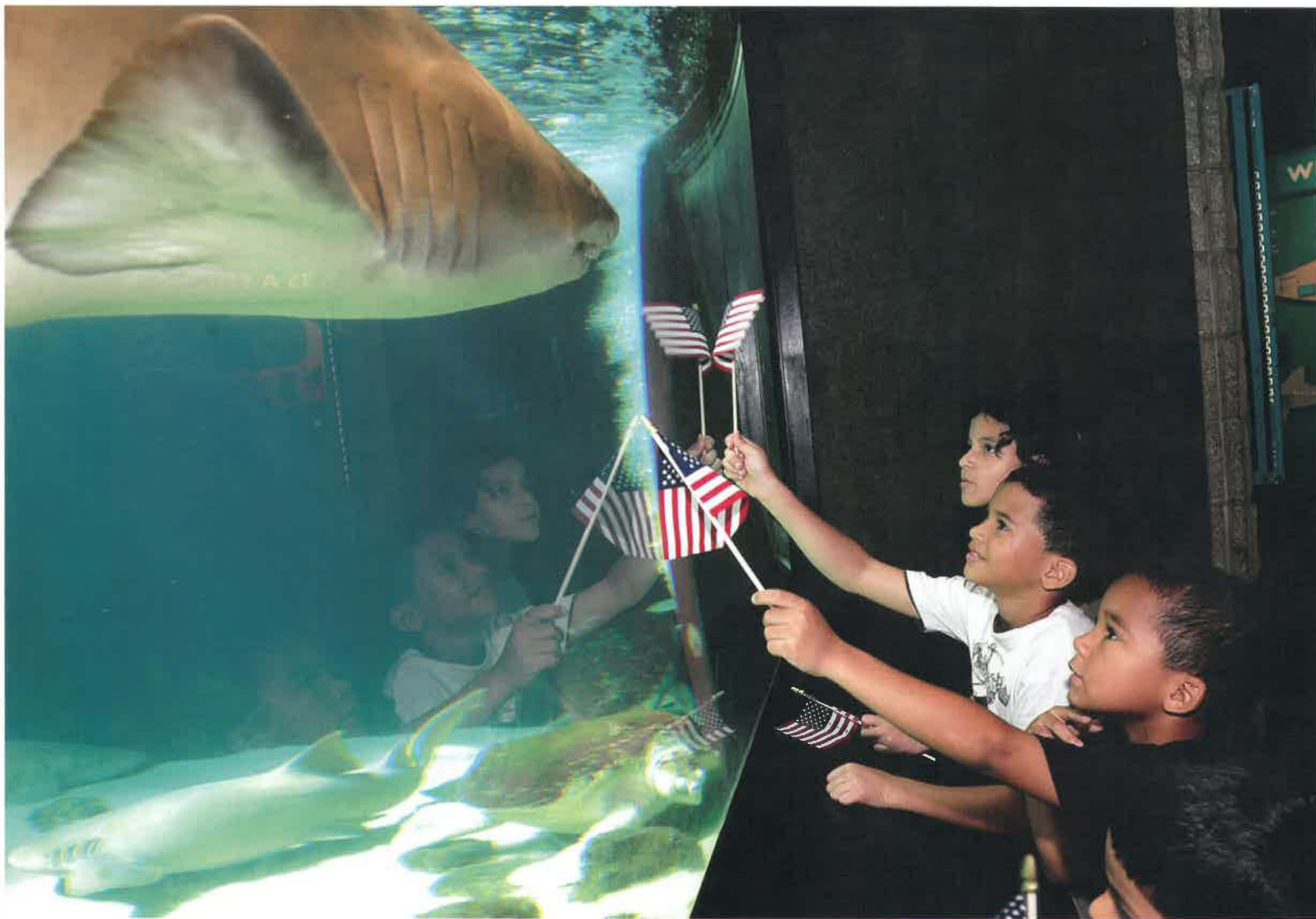
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[OPPOSITE] Miss Sasha, an Amur tiger, cleans one of her cubs on a snowy Tiger Mountain.



[ABOVE] A sand tiger shark swims by children during a citizenship event at the New York Aquarium.

[OPPOSITE TOP LEFT] Students from P.S. 205 cheer during the New York Aquarium's Children's Day Parade with the Department of Education's Office for Family Engagement & Advocacy.

[OPPOSITE TOP RIGHT] New York District Director for the U.S. Citizenship and Immigration Service Andrea Quarantillo and WCS Executive Vice President of Public Affairs John Calvelli with a family of new American citizens.

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In FY10, the U.S. Agency for International Development (USAID) continued its support of WCS conservation activities in central Africa (Central Africa Regional Program for the Environment), the Amazon Basin (Initiative for Conservation in the Andean Amazon), Southern Sudan, and the TransLinks Program. USAID also renewed its funding for the WCS Ecuador and Afghanistan programs and awarded new grants to support our work in and around Rwanda's Nyungwe National Park and the Chaco of Paraguay.

FY10 also saw the launch of USAID's SCAPES (Sustainable Conservation Approaches in Priority Ecosystems) program. Within SCAPES, WCS will simultaneously address biodiversity conservation and livelihood issues at site and policy levels. Our initial focus is on the Greater Madidi-Tambopata Landscape (Bolivia-Peru), the Daurian Steppe (Mongolia-Russia-China), and the Kavango-Zambezi Transfrontier Conservation Area (KAZA TFCA, spanning

Angola, Botswana, Namibia, Zambia, and Zimbabwe). This year, WCS also initiated its contribution to PREDICT, a component of USAID's Emerging Pandemic Threats Program, as a partner to the University of California, Davis. PREDICT will monitor diseases at the animal-human interface and develop a risk-based approach to concentrate efforts on surveillance, prevention, and response at the most critical points for disease emergence from wildlife,



Through PREDICT, WCS will test the hypothesis that illegal, international wildlife trafficking poses threats to public and agricultural health.

The U.S. Fish & Wildlife Service awarded nearly \$3 million in funding to the WCS species conservation and capacity-building programs throughout Africa, Asia, and the Americas.

WCS is grateful for this support and for the U.S. government's commitment to saving the Earth's great wild places and wildlife.

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City Support

WCS is grateful to the City of New York, which provides operating and capital funds through the Department of Cultural Affairs and the Department of Parks and Recreation. We thank Mayor Michael R. Bloomberg, New York City Council Speaker Christine C. Quinn, Brooklyn Borough President Marty Markowitz, Bronx Borough President Ruben Diaz, Jr., Queens

Borough President Helen Marshall, Council Member Domenic M. Recchia, Jr., Chair, Cultural Affairs, Libraries & International Intergroup Relations Committee, and the entire New York City Council. The City of New York is vital to the public/private partnership on which WCS's service to the people of New York rests.

New York State Support

WCS is grateful to the New York State Legislature for operating funds for the Zoos, Botanical Gardens and Aquariums program, administered by the New York State Office of Parks, Recreation and Historic Preservation. This program provides crucial operating support to more than 80 living museums across the state. WCS also thanks the New York State Bronx and Brooklyn Assembly delegations for their education program support, as well as Senators Ruth Hassell-Thompson and Jeffrey D. Klein for capital funding.

[**BOTTOM LEFT**] During Chilean President Sebastián Piñera's visit to California in September, WCS, the Universidad Católica Chile, and the University of California-Santa Barbara signed a Marine Cooperation Agreement to promote marine protected areas in Chile.

[**BOTTOM RIGHT**] Kichwa children in the Ecuadorian Amazon, where WCS helps provide sustainable livelihoods. The Waorani and Kichwa ancestral lands sit atop the country's largest undeveloped oil reserves.

WCS works to protect
gray wolf habitat in
North America.



WILDLIFE HERITAGE CIRCLE

THE WILDLIFE CONSERVATION SOCIETY IS PLEASED TO RECOGNIZE THE MEMBERS OF THE WILDLIFE HERITAGE CIRCLE, WHO HAVE DEMONSTRATED THEIR COMMITMENT TO OUR MISSION BY INCLUDING WCS IN THEIR ESTATE PLANS OR ESTABLISHING LIFE INCOME GIFTS. WE ARE GRATEFUL FOR THEIR CONTRIBUTIONS, WHICH WILL PROVIDE IMPORTANT FUTURE SUPPORT FOR OUR EFFORTS TO SAVE WILDLIFE AND WILD PLACES.

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A blue and gold and a
scarlet macaw preen
each other in Ecuador.



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ANAK PATTANAVIBOOL

ANAK PATTANAVIBOOL, DIRECTOR OF WCS-THAILAND, MANAGES THE TIGER CONSERVATION PROJECT IN THE WESTERN FOREST COMPLEX, COMPRISED OF 17 CONTIGUOUS PROTECTED AREAS IN SOUTHEAST ASIA. ANAK DISCUSSES THE DANGER OF TIGER FARMS, NURTURING THAILAND'S NEXT GENERATION OF WILDLIFE EXPERTS, AND THE IMPORTANCE OF "GOOD SCIENCE" IN CONSERVATION.

HOW DID YOU FIRST GET INVOLVED IN WILDLIFE CONSERVATION?

I have been involved with wildlife conservation for more than 20 years. My first degree is in wildlife management from a university in Thailand. Before joining WCS, I was working for the government in wildlife conservation. There I had various roles, ranging from a park ranger to a wildlife biologist. Throughout my career, I've seen many false claims and actions that have had detrimental impacts on wildlife. WCS supports something that my colleagues and I believe in very strongly. And that is the idea that management and conservation must be based on good science.

TELL US ABOUT YOUR TIGER CONSERVATION PROJECT IN THAILAND'S WESTERN FOREST COMPLEX (WEFCOM).

This is a long-term project that has grown since I started with WCS in 2004. We have aimed to reduce threats to tigers with different high-impact interventions, such as the SMART patrol system and the WCS-supported Wildlife Crime Unit.

We've also used rigorous monitoring actions like camera trapping and capture analysis. Our next major target species will be Asian elephants. We have worked with the Asian elephant conservation project for some years at a national park south of the Tenasserim landscape. Siamese crocodile conservation is another project.

WHAT ARE YOUR THOUGHTS REGARDING THE FATE OF WILD TIGERS?

The fate of wild tigers in Southeast Asia is worse than many people think. Some countries claim large numbers but have not done camera trapping to prove it. In Thailand, tigers remain in viable numbers only in the core area of the WEFCOM, which is what we call a "source site." Protection there allows the population to grow and disperse into other areas. To succeed, high quality management and monitoring must happen across the whole landscape. Once people see it is possible, I think the government has enough resources to strengthen other potential landscapes in Thailand.

HOW HAS WEFCON BEEN CHALLENGED BY HUMAN DEVELOPMENT?

WEFCON is composed of six wildlife sanctuaries and eleven national parks, with an area of about 18,000 square kilometers. It's home to perhaps the region's largest remaining populations of Asian elephants, banteng, wild water buffalo, and rufous-necked hornbills. While these animals have been protected through public efforts to stop large-scale development projects, like dams and highways, there are villages inside WEFCON. The landscape's future depends upon how we limit the expansion of villages and the resources used by their members.

HOW HAVE THE TIGERS' PREY BEEN IMPACTED BY POACHING AND ILLEGAL HUNTING?

It's very bad in many protected areas. In Thailand we have two main systems: wildlife sanctuaries and national parks. The situation is worse in the national parks than in the wildlife sanctuaries. This is mainly because national parks in Thailand have been focusing on tourism services and revenue boosting. Most national parks mobilize only a few staff on patrol. It is difficult to convince them to change. Protection of tigers and tiger prey happens mainly in sanctuaries, where tourism is not intensively promoted. I hope one day the government will change how they run national parks.

HOW EXTENSIVE IS THE ILLEGAL WILDLIFE TRADE IN THAILAND? WHAT'S BEING DONE BY WCS AND THE GOVERNMENT TO COMBAT THIS PROBLEM?

People say Thailand is a regional hub for illegal wildlife trade and trafficking. I think it is true mainly because Thailand's location is at the center of Southeast Asia and it has a very good system of transportation. I have seen seizures of truckloads of pangolins claiming they come from Malaysia and are heading to Lao, ivory seizures in the airports, and other cases. WCS has tried to help the government strengthen the Wildlife Crime Unit at the landscape level. At airports, seaports, and highway roadblocks, the government has wildlife crime units working with police and customs.

WHAT IS THE BIGGEST CONSERVATION CHALLENGE YOU FACE IN YOUR WORK?

People must wake up because the future of wildlife is very uncertain. In Thailand, the government has established many national parks and wildlife sanctuaries, but those responsible do not perform their duty efficiently. Science has proved that we have many protected areas empty of large mammals and birds. People in government must take better actions. Corruption is always a major barrier for success, but a few

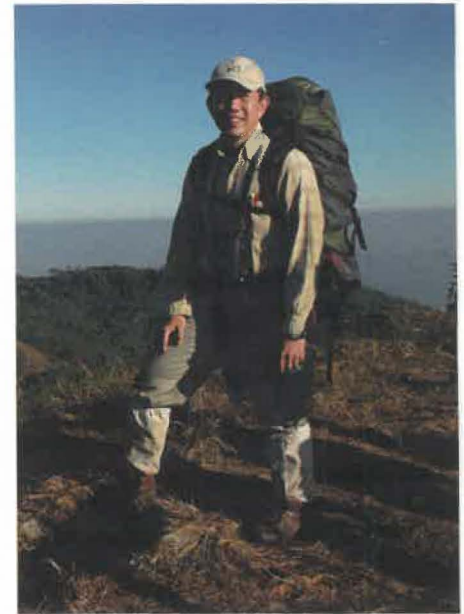
good individuals in government sometimes can turn things around. NGOs must support people in the government doing good work and spending money wisely.

WHAT KEEPS YOU PASSIONATE ABOUT YOUR WORK?

The major thing that keeps me in this position is the opportunity to work closely with good guys in the government to create good models for tiger and other wildlife conservation. WCS has also given me the opportunity to build the strong next generations of wildlife conservation managers and scientists in Thailand.

WHAT CAN AVERAGE PEOPLE AROUND THE GLOBE WHO WISH TO SUPPORT CONSERVATION DO TO HELP COMBAT THE ILLEGAL WILDLIFE TRADE?

I think for average people the best way is not to use the wildlife products or to not promote keeping wildlife as pet. This awareness is important to keep the demand low. I think it's totally wrong to promote tiger farming by saying it will help reduce the pressure on tigers in the wild. Doing that will increase the demand, and more poor people in the remote areas will still come to the forest to hunt tigers. Only rich people can own their own tiger farm. It's expensive.



[OPPOSITE] One of three Malayan tiger cubs born at the Bronx Zoo this year.

[ABOVE LEFT] Anak hikes through Thailand's Omkoi Wildlife Sanctuary.

[ABOVE RIGHT] Anak helps train park rangers in the Western Forest Complex.

Tazo, an abandoned
sea otter from Homer,
Alaska, now thrives at
the New York Aquarium.



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John Bruno, Jr., Migdalia Cordero, Maria Estrada, Roberto Figueroa, Jeanette Goines, Gilbert Green, Porfirio Gutierrez, Keith Harris, Demond Jones, Sonia Kalmanowitz, Louis Landi, Carmen Montalvo, Manuel Moura, Mildonia Nunez, Gerard Palinkas, Raymond Quaglia, Niurka Ramos, Pedro Velez, Eduardo Vidal, Raymond Zelenka: *Attendants*
Manuel Garcia, *Supervising Motor Vehicle Operator*
George Izquierdo, Luigi Marricco, Kevin O'Keefe: *Motor Vehicle Operators*

Cogeneration

Michael Henry, *Manager of Electric Services and Cogeneration*
Mark Anderson, *Supervisor*
Dave Bailey, Farouk Baksh, Hervin Brown, Marvin Dunn, Steven Kozy, Roopnarine Maharaj, Keith Reynolds, Sanjeev Seodas: *Zoological Park Maintainers*

Horticulture

Wayne Bourdette, *Manager*
James Coelho, Robert Herkommer, David Hyde: *Gardeners*
Paul Fialkovic, David Rosenthal: *Zoological Park Maintainers*

Kevin Bermeo, Ivonne Lopez, Lloyd Pearson: *Assistant Zoological Park Maintainers*

CENTRAL PARK ZOO

Jeffrey K. Sailer, *Director of City Zoos and Curator of Animals*
Beverly J. Moss, *Executive Assistant*
Charles Cerbini, *Research Assistant*
Noemi Medina, *Department Assistant*

Animal Programs

Susan Cardillo, *Assistant Curator of Animals*
Anthony Brownie, *Collection Manager*
Dave Autry, *Animal Supervisor*
Jamie Ries, *Assistant Animal Supervisor*
Bernadine Leahy, *Senior Veterinary Technician*
Robert Gramzay: *Senior Wild Animal Keeper*
Celia Ackerman, Michelle Acosta, Nora Bierre, Richard Camilli, Veronica Correa, Tumeca Gittens, Shanna Hall, Alexander Humphreys, Luis Jimenez, Brian Lassegard, Diana Major, Melissa Mason, Bill Robles, Juan Romero, Jeff Schmidt, Gretchen Stoddard, Alexander Thornton, Joshua Sisk: *Wild Animal Keepers*

Operations & Maintenance

Bob Gavlik, *Director of Operations, City Zoos*
Edwina Jackson, *Secretary*
Igor Laboutov, *Manager*
Mong Lee, *Assistant Manager/Systems Specialist*
Michael Nedd, Marlon Ragbir: *Supervisors*
Arkady Gutman, Alistair Johnson, Jose Torres: *Zoo Park Maintainers*
Robert Brinson, Wayne Martin: *Attendant Supervisors*
Richard Deonaraine, Nasrali Hosein, Rabindranath Lowtoo: *Assistant Zoo Park Maintainers*
Santa Alequin, Eusebia Alvarez, Joshua Doval, Ramdhannie Dwarka, Crystal Kinlaw, Oliver Morton Nimia Ortiz, Geraldo Peralta, Lakisha Terry, Karnen Veerapen: *Attendants*

Horticulture

Todd John Comstock, *Manager of Horticulture, City Zoos*
Rafael Fernandez, *Assistant Horticulturist*

Security & Admissions

Stephen Carey, *Assistant Facility Director*
John Geist, Jolanta Lewinska: *Assistant Managers*
Fitzroy Neufville, *Zoo Park Maintainer*
John Bohan, Carlton Davidson, Alberto Gonzalez, John Joseph, Gary MacAllister, Marilyn Maldonado, Frederick Miller, Nestor Morera, Nixon Nedd, Jaime Pagan, Everton Pearson, Rob Sutherland, Ramanen Veerapen: *Assistant Zoo Park Maintainers*
Sonia Colon, Joanne Kittler, Sookiah Maharaj: *Ticket Agents/Cashiers*

NEW YORK AQUARIUM

Jon Forrest Dohlin, *Vice President and Director of New York Aquarium*
Joan Shovlin, *Executive Assistant to Director*

Animal Programs

David DeNardo, *General Curator and Director of Animal Operations*
Richard Blankfein, *Dive Safety Officer, Volunteer Dive Program and Animal Husbandry Volunteer Coordinator*
Martha Hiatt, *Supervisor, Behavioral Husbandry*
Guenter Skammel, *Senior Trainer*
Joanne Sottile, Cristina Vieira: *Trainers*
Michael Morgano, Hans Walters: *Supervisors, Animal Department*
Frank Greco, Leslie Leffler, Wayne Stempler: *Senior Keepers*
Kayla Bergman, Alissa Cardone, Nicole Ethier, Stephanie Mitchell, Lora Murphy, Nicole Pisciotta, Sal Puglia, Veronica Smith Ellen Spencer: *Keepers*
Fiona Bayly, *Administrative Assistant*

Aquatic Health & Living Systems
Catherine McClave, *Curator of Aquatic Health and Living Systems*
Marisa Meilak, *Patricia Toledo, Technicians*
Mary Messing, *Project Assistant*

A musk ox with her calf in the Arctic.



Plant Engineering

Bob Gavlik, *Director of Operations*
Dennis Ethier, *Director of Plant Engineering*
Melvin Pettit, *Manager of Facilities*
John Moore, Kenneth Prichett,
Ralph Ramos, David Scheurich,
William Sheehan, Michael Tine:
Supervising Park Maintainers
Richard Bullen, Richard
DiStefano, Raul Domenech,
Alfred Escalera, Tony Vargas:
Park Maintainers
Christopher Hackett,
Administrative Assistant

Park Services

Laura Gili, *Acting Director of Park Services*
Carlos Martinez, *Security Supervisor*
Samuel Black, Richard Jarus,
Owen Mayhew: *Park Security Maintainers*
Diana Barreto, Carlos Emiliano
Louis Parker, Michael Wallace,
Hector Weir: *Assistant Park Security Maintainers*
Patti Blydenburgh, *Supervisor, Buildings*
Robert Caraballo, Raul Domenech,
José Gonzalez, Jarod Hagan,
Peter Inesti, Eldwin Lebron,
Alicia Shannon: *Attendants*

PROSPECT PARK ZOO

Denise McClean, *Facility Director*
Ann Soobrian, *Administrative Assistant*

Animal Programs

David Bocian, *Curator of Animals*
Dominick Dorsa, *Animal Supervisor*
Nicole Shelmidine, *Assistant Supervisor*
Hulya Israfi I, Jennifer Skelley,
Leslie Steele, Frances Verna:
Senior Wild Animal Keepers
Gwen Cruz, Crystal Dimiceli, James
Gottlieb, Astra Kalodukas, Atu
Marshall, Fran Moghab, Denielle
Muoio, Emily Navarro, Jennifer

Plummer, Justine Wilbur: *Wild Animal Keepers*
Karen Wone, *Veterinary Technician*

Operations & Maintenance

Bob Gavlik, *Director of Operations, City Zoos*
Anthony Boodoo, *Manager*
Rafael Ramirez, *Assistant Manager*
Oscar Ceron, Reginald McKenzie,
Norbert Wescott: *Zoo Park Maintainers*
Selwyn Ramnaidu, Chaitram Singh:
Assistant Zoo Park Maintainers
Wayne Peters, *Supervising Attendant*



Lola Chung, Brenda Martinez,
Nicole Smith, Suheilee Vasquez:
Ticket Agents/Cashiers

QUEENS ZOO

Scott Silver, *Facility Director and Curator*

Animal Programs

Craig Gibbs, *Assistant Curator*
Rebecca Benjamin, *Administrative Assistant*
Donna-Mae Graffam, *Supervisor*
Mark Hall, *Assistant Supervisor*
Marcy Wartell Brown, Marcos Garcia, Dana Vasquez, Raul Vasquez: *Senior Wild Animal Keepers*
Kelly Carmen, Margaret Doutre, Barbara Fung, Ira Goldman, Susan Makower, David Morales, James Putnam-Ethimiou, Erin Rosebrock, Christopher Scoufaras, Thomas Seals, Aaron Springer: *Wild Animal Keepers*
Andrea Aplasca, *Veterinary Technician*

Operations & Maintenance

Bob Gavlik, *Director of Operations, City Zoos*
Jeffrey Blatz, *Manager*
James Wohlmaker, *Supervisor*
Rafael Genao, Bo Yang Tian: *Zoo Park Maintainers*
Orlando Colon, Eugene Teixeira: *Assistant Zoo Park Maintainers*
Carol White, *Supervising Attendant*
Carolina Becker, Alexis Ogando, Johanny Salcedo, David Williams: *Attendants*

Horticulture

John McBride, *Assistant Horticulturist*

Security & Admissions

Vincent Copobianca, *Manager*
Jose Rosado, *Assistant Manager*
Richard Godas, *Supervisor*
Paul Fairall, Leonard Golino, Dannis Graham, Anthony Mark, Noel Martinez, Garfield McEachron, Carlton Nelson, Rafael Nieves, William Rosado, Dhandeo Shankar: *Assistant Zoo Park Maintainers*
Tina Anderson, Joanne Crespo, Augustella Zeko: *Ticket Agents*

GLOBAL CONSERVATION

The WCS Global Conservation Program employs thousands of staff around the world. Each is deeply valued and contributes substantially to our mission. We regret that space only allows us to list here our New York-based staff and the senior staff around the globe.

John Robinson, *Executive Vice President for Conservation and Science*, Joan O. L. Tweedy: *Chair in Conservation Strategy*
Josh Ginsberg, *Senior Vice President*
Leticia Orti, *Director, Conservation Operations*
Staff: Sandra Comte, Todd Olson
Matthew Hatchwell, *Director WCS Europe*
William Conway, Holly Dublin, Maurice Hornocker, Eric Sanderson, George Schaller: *Senior Conservationists*

PROGRAM DEVELOPMENT

Susan Tressler, *Vice President*
Staff: Liz Lauck, Annie Mark, Elizabeth McDonald, Silvina Weihmuller

CONSERVATION SUPPORT

David Wilkie, *Director*
Will Banham, *Associate Director*
Staff: LiLing Choo, Tom Clements, London Davies, Karl Didier, Lynn Duda, Kim Fisher, Lisa Hickey, Danielle LaBruna, Kate Mastro, Nalini Mohan, Krizia Moreno, Tim O'Brien, Erika Reuter, Robert Rose, Samantha Strindberg

SPECIES CONSERVATION

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Staff: Simon Hedges, Brian Horne, John Polisar, Howard Rosenbaum, John Thorbjarnarson, Monica Wrobel

CONSERVATION CHALLENGES

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Helen Crowley, Michael Painter, Ray Victorine: *Associate Directors*
Staff: Marisa Arpels, Christina

Garay, Michel Masozera, Anton Seimon

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Graeme Patterson, Kirstin Siex: *Deputy Directors*
Staff: Christina Connolly, Jennifer Kennard, Fiona Maisels, David Moyer, Amy Pokempner, John Poulsen, Joe Walston, Monica Wrobel

Cameroon

Marc Billong, Anthony Nchanji Chifu, Albert Ekinde, Bernard Fosso, Roger Fotso, Romanus Ikfuingei, Marie Odile Kabeyene, Gwendoline Kwankam, Comfort Ndah Ndom, Mbalnoudji Ngodjo Ndodjim, Aaron Nicholas, David Nzouango, Jean Bosco Pouomegne, Andre Siko, Ymke Warren

Central African Republic

Andrea Turkalo

Chad

Michael Fay, Sebastien Lamoureux, Darren Potgieter

Democratic Republic of Congo

Fidele Amsini, Joelle Badesire, Arcel Bamba, Ellen Brown, Leonard Chihenguza, Floribert Bujo Dhego, Benjamin Ntumba Kaciela, Baby Ngungu Kasareka, Emmanuel Kayumba, Deo Gracias Kujirakwinja, Innocent Liengola, Jacob Madidi, Jean-Remy Makana, Joel Masselink, Jeff Matunguru, Guy Mbayma, Robert Mwinyihali, Boni Nyembo, Solange Osako, Baraka Othep, Raymond Paluku, Papy Shamavu, Richard Tshombe, Alain Twendilonge, Ashley Vosper

Republic of Congo

Rene Aleba, Patrick Boundja, Thomas Breuer, Mamadou Faye, Richard Malonga, Nazaire Massamba, Jerome Mokoko, Suzanne Mondoux, Patrice Mongo, David Morgan, Aline Ndombi, Tomo Nishihara, Nirina Rakotomahefa, Desire Rakondranisa, Crickette Sanz,

Elizabeth Chotalal, Luis Cruz, Stacey Cummings, Eisha Johnson, Angelita Rivera, James Savastano: *Park Attendants*

Security & Admissions

Ken Norris, *Manager*
Eddie Wright, *Assistant Manager*
Joanne Carrillo, *Supervisor*
Kadeshia Brown, Rogelio Dickens, Michael Fazzino, Vincent Ferguson, David McPhearson, Yolanda Smith, Jennifer Soto, Romualdo Vasquez, Milton Williams, Rosa Williams: *Assistant Zoo Park Maintainers*

Paul Telfer, Hannah Thomas,
Felin Twagirashyaka, Hilde
VanLeeuwe, Moise Zoniaba

Gabon

Rostand Aba'a, Gaspar Abitisi,
Nicholas Bout, Romain
Calaque, Tim Collins, Susanne
Cote, Angela Formia, Martin
Hega, Louise Hurst, Quevain
Makaya, Narcisse Moukougou,
Anne-Marie Ndong-Obiang,
Sandra Nse Esseng Caroline
Pott, Tim Rayden, Olivia
Scholtz, Malcolm Starkey, Ruth
Starkey, Fenneke Tjallingii-
Brocken, Alden Whittaker,
Richard Zandre

Ivory Coast

Felix Koffi Brou, Kouame Djaha, Akoi
Kouadio, Traore Mammoudou

Kenya

Alayne Cotterill, Stephanie
Dolrenry, Steven Ekwanga,
Laurence Frank, Leela Hazzah,
Anthony ole Kasanga, Evans
Lemusana, Seamus MacIennan,
Everlyn Ndinda, James ole
Putanoi, Rosie Woodroffe

Madagascar

Lantonaiaina Andriamampianina,
Aristide Andrianarimisa,
Vonjy Andrianjakarivelo, Olga
Andriantsoa, Lisa Gaylord,
Norolalaina Raharitsimba
Heritiana, Christopher Holmes,
Jean Jacques Jaozandry,
Francisco Ramananjatovo,
Cesaïre Ramilison, Herilala
Randriamahazo, Bemahafaly
Randriamanantsoa, Luccanie
Raonison, Andriamandimbisoa
Razafimpahanana, Yvette
Razafindrakoto, Nafis
Razafintsalama, Salohy
Soloarivelo

Nigeria

Jonas Attah, Andrew Dunn,
Inaoyom Imong, Michael Moki,
Louis Nkonyu, Francis Okeke,
Mark Otu, Celestine Wirkikfe

Rwanda

Nsengiyunva Barakabuye,
Innocent Buvumuhana, Nerissa
Chao, Trudiann Dale, Julian

Easton, Vincent Hakizimana,
Afrika Janvier, Charles
Karangwa, M. Michel, Felix
Mulinadahabi, Ian Munanura,
Philbert Munyamana,
N. Nanette, Joseph Ngango,
Nicholas Ntare, Fidele
Ruzigandekwe, Claudine
Tuyishime, Sentama Vedaste

Southern Sudan

Margaret Adong, Girma Argaw,
Paul Peter Awol, Jill deBruijn,
Paul Elkan, Sarah Elkan, Simon
Gain, Falk Grossmann, Thomas
Kamau, Fiachra Kearney,
Joyce Kilonzi, Michael Lopidia,
Charlie McQueen, Maria Carbo
Penche, Albert Schenk, John
Moi Venus, Michelle Wieland

Tanzania

Nuhu Daniel, Tim Davenport,
Daniela de Luca, Sarah Durant,
Said Fakihi, Charles Foley, Lara
Foley, Sylvanus Kimiti, Sophy
Machaga, Bakari Mbano, Noah
Mpunga, Ayubu Msago, Linus
Munishi, David Mutekanga,
Guy Picton-Phillips, Hamisi
Sadalla, Haruna Sauko, Festo
Semanini

Uganda

Sam Ayebare, Jane Bemigisha,
Jan Broekhuis, Ivan Buddo,
Joseph Kabaga, Stonewall
Kato, Ben Kirunda, Scovia
Kobusingye, Alastair
McNeillage, Tutilo Mudumba,
Hamlet Mugabe, Geoffrey
Mwedde, Simon Nampindo,
Grace Nangendo, Mustapha
Nsubuga, Edward Okot, William
Olupot, Sarah Opio, Juliet
Owori, Wilibroad Owori, Andrew
Plumptre, Sarah Prinsloo,
Douglas Sheil, Warren
Turinawe, Juraj Ujhazy, Miriam
van Heist, Christine Vuciru

Zambia

William Banda, Chisense Chembe,
Cephas Chewes, Chris Chiwenda,
Whiteson Daka, Dale Lewis,
Makando Kabila, Warence
Kaluba, Mike Matokwani,
Handsen Mseteka, Kennedy
Mulilo, Isaac Mwanaumo, Ruth
Nabuyanda, Nemiah Tembo

ASIA

Colin Poole, *Executive Director*
Peter Clyne, Peter Zahler: *Deputy
Directors*
Staff: Rose King, Lisa Yook

Regional

Etienne Delattre, John Goodrich,
Ullas Karanth, Antony Lynam,
Madhu Rao, Emma Stokes,
Joe Walston

Afghanistan

Ayub Alavi, Dad Ali, Hussain
Ali, Inayat Ali, Peter Bowles,
David Bradfield, Zabihullah
Ejlasi, Inayatullah Farahmand,
Erin Hannan, Mary Heslin,
Muhammad Ismael, McKenzie
Johnson, Nina Kanderian,
David Lawson, Ali Madad,
Zalmay Moheb, Sweeta
Mohmand, Sayed Naqibullah,
Hafizullah Noori, Rob Obendorf,
Stephane Ostrowski, Arif
Rahimi, Hafizullah Rahmani,
Haqiq Rahmani, Qais Sahar,
Mohammed Shafiq, Chris Shank,
Anthony Simms, Saboor Sultani

Cambodia

Sophie Allebone-Webb, Pech
Bunnat, Hong Chamnan, Song
Chansocheat, Tom Evans,
Mark Gately, Nhem Sok Heng,
Ashish John, Long Kheng,
Nut Menghor, Karen Nielsen,
Hannah O'Kelly, Pet Phaktra,
Edward Pollard, Hugo Rainey,
Tao Sarath, Tan Setha, Ea
Sokha, Men Soriyun, Heng
Sovannara, Robert van Zalinge,
Sun Visal

China

Caidanjia, Cirenbaizhen, Langhua
Du, Youcai Du, Youmei Du,
Minfang Gan, Yufang Gao, Aili
Kang, Fengliang Li, Shengbiao
Li, Lishu Li, Haitang Liang,
Anyu Lim, Fuwen Liu, Tong Liu,
Shunqing Lu, Yi Ren, Jirong
Tang, Jin Tian, Jingjing Wang,
Zhenyu Wen, Donna Xiao, Yan
Xie, Guihong Zhang, Mingwang
Zhang, Mingxia Zhang,
Huaidong Zhao, Wenbo Zhu

India

Ravi Chellam, Advait Edgaonkar,

Arjun Gopalaswamy, Sanjay
Gubbi, A.V. Haridevan, Rajah
Jayapal, Ajith Kumar, Samba
Kumar, P.M. Muthanna

Indonesia

Dwi Nugroho Adhiasto, Harry
Alexander, Herovan Alfin,
Noviar Andayani, Mohamad
Andri, Big Antono, Fitri Ariyanti,
Runy R. Badrunnisa, Samsared
B. Barahama, Bambang P.
Bharoto, Agus W. Boyce, Nick
Brickle, Sarmaidah Damanik,
Bonie F. Dewantara, Akbar Ario
Digdo, Patih Fahlapie, Giyanto,
Donny Gunaryadi, Agung
Hawari Hadi, Firman Hadi, Novi
Hardianto, Herwansyah, Ian
M. Hilman, Iwan Hunowu, Silfi
Iriyani, Munawar Kholis, David
Kosegeran, Deasy Krisanti,
Usman Laheto, Leswarawati,
Fazrie Taufik Lubis, Edyson
Maneasa, Athaya Mubarak,
Meyner Nusalawo, Cep Dedi
Permadi, Lilik Prastowo,
Wulan Pusparini, Danny Albert
Rogi, Frida M. Saanin, Adnun
Salampessy, Silvia, Stephen
Siwu, Vicky Soleman, Synthia
Soputan, Sugiyono, Ade Kusuma
Sumantri, Rudianto Surbakti,
Susilo, John Tasirin, Irsan S.Z.
Thayeb, Rusli Usman, Waktre,
Arma Wati, R. Wianasari,
Agustinus Wijayanto, Hariyo
Wibisono, Nurul Winarni

Lao People's

Democratic Republic

Keophithoune Bounnak,
Anita Bousa, Souksavath
Chanthangeun, Mattiphob
Douangmyxay, Sivilay
Duangdala, Paul Eshoo,
Chris Hallam, Troy Hansel,
Michael Hedemark, Arlyne
Johnson, Kongsy Khamavong,
Phouthakone Luangyotha,
Sally Lambourne, Alex
McWilliam, Lucy Ogg, Sithisak
Pan-Inhuane, Oudone
Phakphothong, Soudalath
Phasavath, Vanida Philakone,
Anousone Philavanh,
Bounthavy Phommachanh,
Houmphanh Phompanya,
Sinthone Phoumkanouane,
Sengphet Pinsouvanh, Sue

Pretty, Akchousanh Rasaphone,
Santi Saypanya, Soulinphone
Saysinghan, Sengvilay
Seateun, Daovanh Senghalath,
Sisomphane Sengthavidth,
Soubanh Silithammavong,
Phonevanh Sinthammavong,
Choumkham Sivilay, Soumalie
Sygnavong, Anhsany Sypasong,
Dtoui Tavanh, Chanthavy
Vongkhamheng, Vene Vongphet

Malaysia

Azima Azmi, Amanda Bernice,
Melissa Bilong, Eunice Chia,
Cynthia Chin, Melvin Gumal,
Jason Hon, Saidatul Nadiah
Jalaluddin, Kamilia Jasrizal,
Norhidayati Khalid, Song Horng
Liang, Chee Pheng Low, John
Mathai, Wegess Midok, Eling
Ng, Sylvia Ng, Emma Noordin,
Joshua Pandong, Now Anak
Sidu, Mufeng Voon, Thai Poh
Yen, Ahmad Zulfi

Mongolia

Otgonsumiya Badmaa,
Tuvshinjargal Dashdawaa,
Amanda Fine, Bat-Erdene
Gomsuren, Losolmaa Jambal,
Ochirkhuyag Lkhamjav,
Odonchimeg Nyamtseren,
Bolortsetseg Sanjaa,
Enkhtuvshin Shiilegdamba,
Agizul Sosor, James Tallant,
Tuvshin Unenbat, Ann Winters

Myanmar

U Aung Myo Chit, Daw San San
Htay, U Saw Htun, U Win Ko
Ko, U Kyaw Thinn Latt, U Than
Myint, Daw Khin Myo Myo,
U Kyin Khan Kam, U Kyaw
Moe, U Hla Naing, Daw Myint
Myint Oo, Tha Po, U Saw Htoo,
Robert Tizard, Nan San San
Win, U Than Zaw

Pakistan

Mayoor Khan, Ismail Muhammad,
Taj Muhammad, Nasirullah

Papua New Guinea

Arison Arihafa, Daniel Charles,
John Kuange, Mellie Samson,
Ross Sinclair, Almah Tararia,
Lily Ugi, Tanya Zeriga-Alone

Russia

Andre Dotsenko, Samantha
Earle, Evgeny Gishko, Cheryl
Hojnowski, Michiel Hotte,
Natalia Karp, Denis Korchargin,
Alexei Kostyria, Vladimir
Melnikov, Clay Miller, Dale
Miquelle, Marina Miquelle,
Katya Nikolaeva, John
Paczkowski, Tanya Perova,
Alexander Reebin, Nikolai
Reebin, Anton Semyonov, Ivan
Serodkin, Svetlana Soutryina

Thailand

Thongbai Charoendong, Manat
Inchum, Nutthinee Jerachasilp,
Sitthichai Jinamoy, Pornkamol
Jornburom, Thongjia
Kaewpaitoon, Chai Kamkaew,
Permsak Kanishthajata, Nont
Kheawwan, Angkana Makvilai,
Panomporn Patithus, Anak
Pattनावibool, Manoon
Pliosungnoen, Chaksin Praiket,
Yossawadee Rakpongpan,
Chokanan Saengduen, Chution
Savini, Suitpattee Siethongdee,
Wittaya Teuktiao, Jutamas
Tifong, Mayuree Umponjan,
Kwanchai Waitanyakarn

Vietnam

Duong Viet Hong, Hoang Kim
Thanh, Le Minh Thao, Pham Thi
Minh, Nguyen Thi Nhung, Scott
Robertson, Tran Xuan Viet

LATIN AMERICA & THE CARIBBEAN

Avecita Chicchón, *Executive Director*
Michael Painter, *Associate Director*
Mariana Varese, *Director, Perú &
Amazon*
Staff: Carlos Fajardo, Alexandra
Rojas, Natalia Rossi

Argentina

Felicity Arengo, Ricardo Baldi,
Dee Boersma, Claudio
Campagna, Valeria Falabella,
Esteban Frere, Martín Funes,
Ana Carla Galli, Patricia
Gandini, Jimena Gonzalez,
Graham Harris, Patricia Harris,
Ernesto Juan, Margaret Kay,
Santiago Krapovickas, Carolina
Marull, Juan Masello, Patricia
Marconi, Julia Medina, Andrés
Novaro, Claudia Pap, Raquel

Perassi, Flavio Quintana,
Adrian Schiavini, Alejandro
Vila, Susan Walker, Pablo Yorio,
Carolina Zambruno, Victoria
Zavattieri

Brazil

Ana Rita Alves, Martha Argel,
Jean Boubli, Valéria Guimarães,
Alexine Keuroghlian, Flavia
Miranda, Thays Nicolella, Fabio
Rohe, Claudia Pereira de Deus,
Helder Queiroz, Maira B. De
Souza, Eduardo Venticinque

Bolivia

Erika Alandia, Guido Ayala, Zulema
Barahona, Oscar Castillo,
Kantuta Lara, Zulema Lehm,
Oscar Loayza, Guido Miranda,
Lilian Painter, Linda Rosas,
Damián Rumiz, Elvira Salinas,
Teddy Siles, Robert Wallace

Chile

Susan Arismendi, Mauricio
Chacón, Ruben Delgado, Daniela
Droguett, Sebastián Lorca,
Custodio Millán, Jorge Millán,
Miguel Millán, Claudio Moraga,
Ricardo Muza, Fiorella Repetto,
Bárbara Saavedra, Manual
Sanchez, Raúl San Martín,
Andrea Urbina, Alejandro Vila

Colombia

Nili Johana Betancour, Giovanni
Cárdenas, Carlos Cultid, Isabel
Estrada, Padu Franco, Bedir
German Martínez, Fanny
Gonzalez, Catalina Gutierrez,
Laura Jaramillo, Cesar
Humberto Giraldo, Harrison
Lopez, Robert Marquez, Jesus
Martinez, Claudia Medina,
Carlos Ríos, Vladimir Rojas,
Nestor Roncancio, Manuela
Ruiz, Carlos Saavedra,
Yadiarley Toro, Viviana Vidal,
Julian Velasco

Ecuador

Santiago Arce, Gosia Bryja,
Adriana Burbano, Pamela
Cevallos, Ruben Cueva, Paulina
Encalada, Gloria Figueroa,
Edison Molina, Ivon Muñoz,
Diego Naranjo, Andrew Noss,
Erika Olmedo, Belen Pazmino,
Walter Prado, Efrén Tenorio,

Lenín Toapanta, Javier Torres,
Victor Utrera, Jorge Velasquez,
Pablo Viteri

Falkland Islands

Rob McGill

Mesoamerica

Maria Bautista, Mario Boza,
Archie Carr III, Marcial
Córdova, Diana Escobar, Peter
Feinsinger, Rony García Anleu,
Rosario Guerra, Angel Luna,
Patricia Mendoza, Rolando
Monzon, Roan Balas McNab,
Melvin Mérida, José Moreira,
Ramon Peralta, Gabriela Ponce,
Jeremy Radachowsky, América
Rodríguez, Luis Romero, Julio
Zetina

Peru

Miguel Antunez, Angelica
Benedetti, Richard Bodmer,
Ebert Canayo, Marilia
Escobedo, Amanda García,
Katia Isla, Ronald Leon, Leo
Maffei, Patricia Mendoza,
Pablo Puertas, Catherine
Uehara, Zina Valverde, Mariana
Varese, Carlos Vilchez

Venezuela

Carolina Bertsch, Isaac Goldstein,
Marianela La Grave, Francis
Mass, Lucy Perera, Williams
Sarmiento

MARINE

Caleb McClennen, *Director,
Marine Conservation*
Howard Rosenbaum, *Director,
Ocean Giants*
Staff: Amie Bräutigam, Elizabeth
Matthews, Sarah Pacyna,
Grace Seo

Global/Regional

Andrew Baker, *Tim McClanahan*

Belize

Suzanne Arnold, Virginia Burns,
Philip Castillo, Robin Coleman,
Natalya Dennison, Paulita
Fabro, Nathaniel Forbes, Janet
Gibson, Roy Herrera, Joyce
Linton, Julio Maaz, Claudette
Montes, Randolph Nunez,
Pollin Requena, Rozinell
Rodriguez, Dolores Sho, Robert

Steneck, Alexander Tilley,
Faygon Villanueva, Danny
Wesby, Sandra Zelaya

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Akanisi Caginitoba, Akuila
Cakacaka, Martin Callow, Pepe
Clarke, Sirilo Dulunaqio, Daniel
Egli, Margaret Fox, Fraser
Hartley, Anders Knudby, Stacy
Jupiter, Wayne Moy, Waisea
Naisilisili, Yashika Nand,
Nischal Narain, Sunil Raj
Prasad, Ingrid Qauqau, Thomas
Richard Tui, Naushad Yakub

Indonesia

Rizya Ardiwijaya, Stuart
Campbell, Yudi Herdiana,
Agus Hermansyahm, Tasrif
Kartawijaya, Susy Mawarwati,
Ahmad Mukminin, Effin
Muttaqin, Shinta Pardede,
Dian Pertiwi, Rian Prasetya,
Amal Randy, Ripanto, Fakhri
Setiawan, Handoko Susanto,
Sonny Tasidjawa, Irfan Yulianto

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Ateweberhan, Joan Kawaka,
Kitema, Joseph Maina, James
Mariara, Nyawira Muthiga, Patrick
Mutisya, Moses Mwambogo

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Rodolph Andrianilaina,
Huyghens Rock Behanarina,
Raoul Olivier Jaonazandry, José
Maro, Andrianarivelo Norbert,
Francisco Ramananjato, Vito,
Herilala Randriamahazo,
Bemahafaly Randriamanantsoa,
Andriamiasaintsoa Stephano

Papua New Guinea

Gideon Haukani, Katherine
Holmes, Evelyn Huvi, Rachael
Lahari, Tau Morove, Elliot
Tovaboda, Ryan Walker

OCEAN GIANTS

Marine Mammals

Benazir Ahmed, Zahangir Alom,
Norbert Andrianarivelo,
Salvatore Cerchio, Tim Collins,
Elisabeth Mansur, Rubiaty
Mansur Mowgii, Yvette
Razafindrakoto, Brian Smith

Sea Turtles

Harvey Antonio, Waldimar Brooks,
Cathi Campbell, Inocencio
Castillo, Lorna Churnside,
Cecil Clark, Kevin Clark, Adonis
Coulson, Edgar Coulson, Claudio
Forbes, Angela Formia, Gertrude
Hodgson, José Hodgson,
Linda Hodgson, Victor Huertas,
Ruben Julio, Cynthia Laguerre,
Harry Laury, Kensly Martinez,
Dorian McCoy, Kent McCoy,
William McCoy, Anne Meylan,
Peter Meylan, Aida Morris,
Thelia Narcisso, Ermicinda
Pong, Soleta Prudo, Rodrigo
Renales, Francela Thomas

Sharks

Rachel Graham, James Peter Lewis

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Leslie Karasin, Heidi Kretser,
Zoë Smith

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Gary Lee, Cynthia Martino, Brian
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Glenn Motzkin, Tiffany O'Brien,
Kendra Ormerod, Carianne
Persohn, Levi Sayward

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Joel Berger, Joe Liebezeit,
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Cook, Vitek Jirinec, Julie Kelso,
Zoë Lebrun-Southcot, Anaka
Mines, McKenzie Mudge,
Andrew Perry, Kevin Pietrzak,
Brian Robinson, Chris Smith,
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Jeff Burrell, Molly Cross, Kristy
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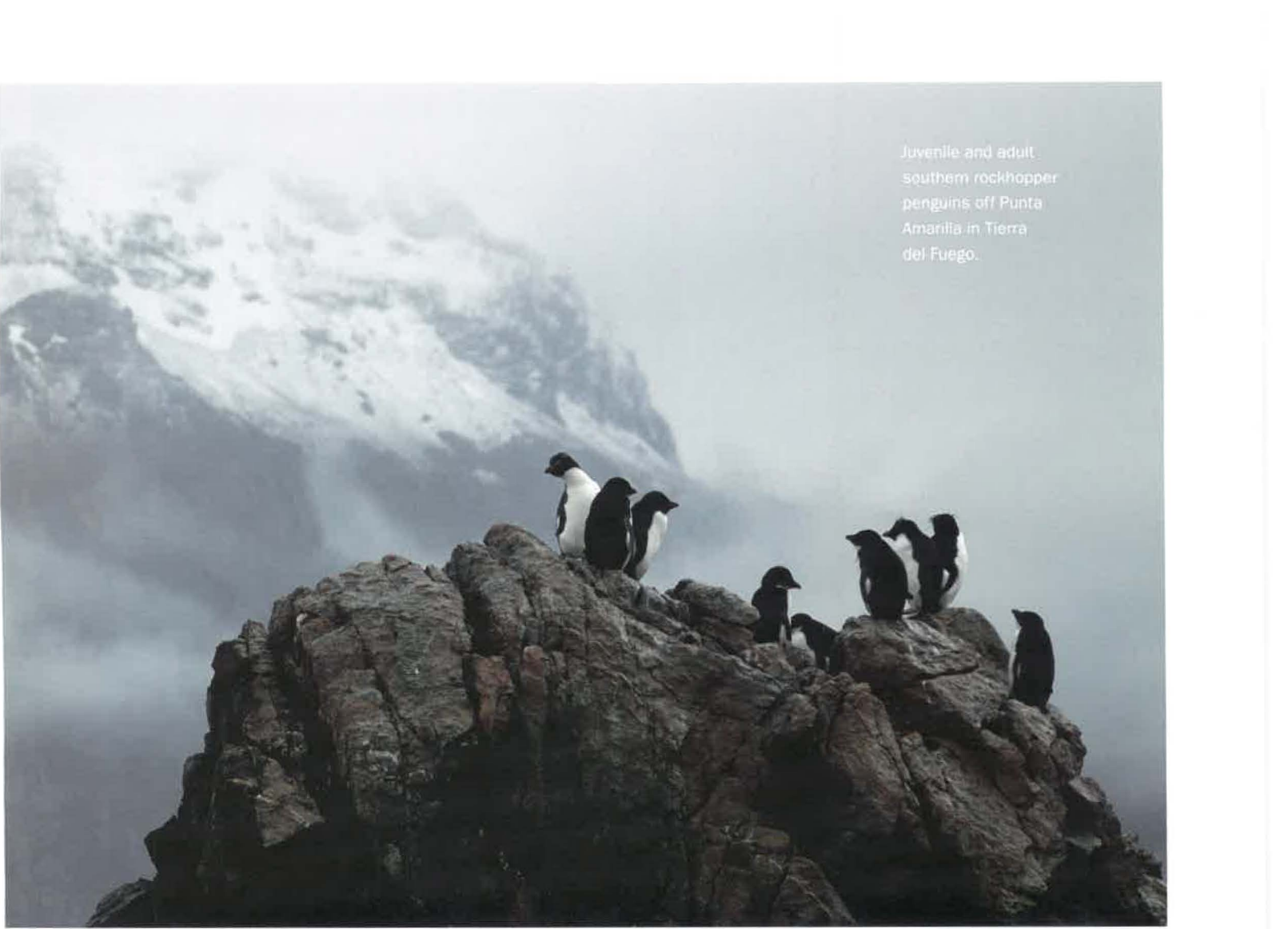
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Lisa Maher, *Assistant Manager*
Tal Aviezer, *Communications and Fundraising Associate*

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Juvenile and adult
southern rockhopper
penguins off Punta
Amarilla in Tierra
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Gillian Sciacca, *Development Associate*

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Carolyn De Sena, *Director Capital Planning*

A juvenile giant leaf-tailed gecko in the Bronx Zoo's World of Reptiles.



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Wahid Joel, Budget Coordinator
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Virgin Colon, Unit Manager,
Dancing Crane Cafe
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Zoo Satellite Restaurants
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Cache Rodriguez, Brenda
Williams: Unit Managers,
Bronx Zoo Satellite Restaurants
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Manager, NY Aquarium

Rocco Turco, Unit Manager,
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Przemyslaw Sadowski, Assistant
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Catering
Ray Jackson, Cook, Catering
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Bronx Zoo Warehouse

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Information Services Specialist

Fran Sorge, Telecom Supervisor

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Web Writer

Sophie Bass, Communications

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Luke Groskin, Associate Manager,
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Marissa Hodges, Manager,
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Jessica Liese, Manager, Online
Programs

Helen Yi, Graphic Designer

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Evelyn J. Junge, Deputy General
Counsel

Assistant General Counsels:

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Holmes, Danièle Pascal-Dajer,

María Elena Urriste

Scott F. Wight, Coordinator of
Legal Services

Napoleon now shares the Bronx Zoo's Birds of Prey exhibit with two young bald eagles from Wyoming.



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BÁRBARA SAAVEDRA

WCS-CHILE DIRECTOR BÁRBARA SAAVEDRA HAS SPENT FIVE YEARS OVERSEEING THE CREATION OF THE KARUKINKA PROTECTED AREA AT THE SOUTHERN TIP OF SOUTH AMERICA. HERE SHE DISCUSSES THE IMPORTANCE OF PEAT CONSERVATION, HOW BEAVERS CAME TO PATAGONIA, AND HER EXPERIENCE INTRODUCING 50 CHILDREN TO THE LAST OLD-GROWTH FORESTS OF TIERRA DEL FUEGO.

100

WHAT FIRST DREW YOU TO CONSERVATION SCIENCE?

Since I was a child, I had always wanted to become a scientist. Living in one of the most important biodiversity hotspots and then becoming an ecologist naturally guided me to conservation. With WCS and Karukinka, now I feel we are making major contributions to Chile's biodiversity conservation. This makes me very proud.

DESCRIBE THE KARUKINKA LANDSCAPE WHERE YOU WORK AND WHY IT IS IMPORTANT.

The Karukinka Landscape is located in the southwestern sector of Tierra del Fuego Island in Chile. Named "Our Land" in the language of the extinct Selk'nam, the island's original inhabitants, Karukinka contains several unique ecosystems. It includes the largest and best conserved southern beech forests that exist in the Southern Hemisphere at this latitude, along with the most important peat bogs that exist in Tierra del Fuego. Together, these ecosystems store and capture humongous amounts of terrestrial carbon at latitudes where no other terrestrial ecosystems exist.

WHAT WILDLIFE DO YOU FIND THERE?

This landscape, which also has unique marine ecosystems, provides habitats for significant wildlife—guanacos, woodpeckers, elephant seals, and a wide variety of marine birds. Many of these are the southernmost populations of their species, using the southernmost refuges for their survival.

HOW IS WCS WORKING IN KARUKINKA?

Through the Karukinka reserve, WCS is putting the Southern Cone of South America on the global conservation map. This effort brings together huge conservation values and powerful tools for addressing global challenges at the local scale. Last year, we launched the Karukinka marine program, which is a key part of our conservation vision. That vision includes developing private-public partnerships to manage conservation in the field, and integrating marine-terrestrial efforts at a bi-national level, across Argentina and Chile, to increase the impact of our local conservation efforts.

WHAT IS THE CONSERVATION POTENTIAL FOR KARUKINKA LANDSCAPE?

Karukinka offers a unique opportunity to actively integrate terrestrial, marine, and private-public conservation efforts in Patagonia. Karukinka is a private protected area. It's located in front of Chile's second largest national park, Alberto De Agostini. They are separated by a deep and biodiversity rich fjord called the Admiralty Sound. We hope that WCS Karukinka conservation vision and management tools can become a model for strengthening conservation in the Southern Cone.

WHY ARE THE PEAT BOGS OF CHILE SO IMPORTANT?

Peat lands cover only three percent of the world's land area, but contain 550 gigatons of carbon. That's equivalent to 30 percent of all global soil carbon, and it's twice the amount of carbon sequestered in the world's forests. Less than five percent of these ecosystems exist in the Southern Hemisphere. In Chile, Karukinka holds around 75,000 hectares of peatlands, almost 80 percent of the peatlands that exist in the region. This represents a significant sink of carbon as well as a vast water reservoir.

HOW IS WCS PROTECTING THE PEAT BOGS OF KARUKINKA?

Rough estimations indicate that approximately 250 million tons of CO₂ in Karukinka peat are at risk. Under the Chilean mining law, the bogs can be exploited regardless of the willingness to conserve the land by the owner. WCS expects to soon be able to sell credits generated from the protection of Karukinka peat bogs. The goal is to provide long-term, sustainable funding to conserve these globally significant peat lands through carbon offsets, while slowing the pace of climate change, sequestering terrestrial carbon sinks, and ensuring the survival of wildlife and wild places.

ARE CHILEAN OLD-GROWTH FORESTS IN NEED OF PROTECTION, TOO?

The carbon sequestered in Karukinka old-growth forests, which are the most important existing in the world at that latitude, is also at risk. Local forestry companies, that already exploited almost all the forests in Tierra del Fuego, still expect that WCS at some point will decide to sell them Karukinka forests. Karukinka forest carbon will be out of risk only when we fully develop a strong conservation program, ecologically and financially sustainable, as well as actively integrated into local communities through science, education, management, and public use.

HOW HAS THE WILDLIFE OF PATAGONIA BEEN IMPACTED BY THE INTRODUCTION OF NON-NATIVE SPECIES?

Tierra del Fuego biodiversity and the processes connected to it are deeply impacted by invasive species. Beavers, introduced 60 years ago from Canada, directly consume and destroy the forests and peat bogs. Minks affect the survival of native bird fauna. Invasive herbs affect soil formation and nutrient cycling in Patagonian grasslands. There are invasive fox, rabbits, salmon, and several other species that either compete or consume native biota. We need to develop innovative and bold management practices to respond to these threats and restore Patagonian ecosystems.

HOW ARE CONSERVATION EFFORTS IN CHILE ALSO SERVING THE NEEDS OF LOCAL COMMUNITIES?

The challenge in Karukinka, as well as in the rest of the country's protected areas, is giving value to the standing biodiversity contained in protected areas and to incorporate conservation activities to local economies. In Tierra del Fuego, WCS has worked hard, and successfully, to transform Karukinka into a small engine for local development. By producing useful science for management, education for conservation, and green businesses, Karukinka will become a model for other protected areas in Patagonia.

DESCRIBE ONE OF YOUR PROUDEST EFFORTS FOR WCS.

WCS has established an environmental education program in Tierra del Fuego. This is an island with only one important town, Porvenir. It is in the north about four to five hours from Karukinka. The first project we developed, related to controlling exotic species, allowed us to take for the first time a group of 50 children from the only high school on the island to Karukinka. They couldn't believe how beautiful and big these ecosystems were, and they were so proud of being a part of this conservation effort. And that made us proud.



[OPPOSITE] Karukinka holds unique habitat for marine and terrestrial wildlife. One of the biggest threats to the region is invasive species.

[ABOVE] Bárbara and her team work to protect rare species and habitat at the southernmost tip of South America.

Three coatimundi brothers arrived at Central Park Zoo's Tropic Zone this year. "Coatis" are native to the mountains of Venezuela, Colombia, and Ecuador.



WCS BY THE NUMBERS

Operating expenses and plant renewal funding: **\$199,300,000**

2010 attendance for WCS zoos and aquarium: **ABOUT 4.46 MILLION**

Acres of wildlife parks we manage: **308.5**

Students currently matriculated at our Urban Assembly School for Wildlife: **317**

Value of television stories placed by WCS in 2010: **ABOUT \$11 MILLION**

Number of impressions those broadcasts made: **233 MILLION**

How many people "Ran for the Wild" at the Bronx Zoo in April: **5,078**

Total number of Facebook fans for WCS and Bronx Zoo: **MORE THAN 33,000**

Total letters sent to Congress via WCS campaigns in support of wildlife: **469,741**

How many of those were to help save tigers: **178,600**

Number of Bronx-born Kihansi spray toads returned to Tanzania: **100**

Piranhas swimming in Prospect Park (in the zoo!): **19**

Number of wild tiger "source sites" identified: **42**

How many tiger cubs born on Tiger Mountain last spring: **6**

Number of WCS wildlife health specialists: **MORE THAN 60**

Wild bird species observed breeding on Bronx Zoo grounds last spring and summer: **59**

Wild bird species observed breeding on Bronx Zoo grounds by William Beebe in 1904: **37**

How many submissions entered to name the Bronx Zoo's three lion cubs: **9,520**

Number of architectural awards the Center for Global Conservation won in 2010: **4**

Number of architectural awards WCS buildings have won since 1990: **30**

Groundbreakings the Bronx Zoo had in 2010: **2**

Total video views on "ZooTube," WCS's YouTube channel: **1,941,115**

How many years WCS has conducted the Adirondack loon census: **10**

Number of lakes covered by the census: more than **300**

ANIMAL CENSUS

(as of June 30, 2010)

Facility/Class	Species (On-site and In-on-loan)	Births (Includes non-viable)	Specimens (On-site and In-on-loan)
BRONX ZOO*			
Mammals	150	1067	2,041
Birds	230	163	1306
Reptiles	103	32	453
Amphibians	43	574	1799
Invertebrates	28	1077	59,416*
Pisces	48	220	1320
TOTAL	602	3,133	66,335

CENTRAL PARK ZOO

Mammals	28	3	704
Birds	86	61	352
Reptiles	32	4	638
Amphibians	18	0	258
Invertebrates	2	0	110,028*
Pisces	5	0	19
Total	171	68	111,999

QUEENS ZOO

Mammals	25	0	77
Birds	40	41	236
Reptiles	4	0	48
Invertebrates	1	0	25
Pisces	3	0	11
Total	78	43	397

PROSPECT PARK ZOO

Mammals	40	9	120
Birds	34	0	99
Reptiles	30	0	89
Amphibians	16	2	55
Invertebrates	2	0	107
Pisces	20	0	506
Total	142	11	976

NY AQUARIUM

Mammals	8	1	25
Birds	1	0	14
Reptiles	7	0	24
Amphibians	9	0	44
Invertebrates	110	0	8406
Pisces	213	21	2646
Total	348	22	11,159

Grand Total (all facilities)	1,336	3,275	190,866
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- * Includes SAE
- * Invert numbers Includes approximately 58,000 Madagascar hissing cockroaches
- * Invert numbers at CPZ Includes leaf-cutter ant colony

PAPER

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16 trees preserved for the future



47 lbs waterborne waste not created



6,841 gallons wastewater flow saved



756 lbs solid waste not generated



1,490 lbs net greenhouse gases prevented



11,404,365 BTUs of energy not consumed



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RECOMMENDED FORM OF BEQUEST 2010

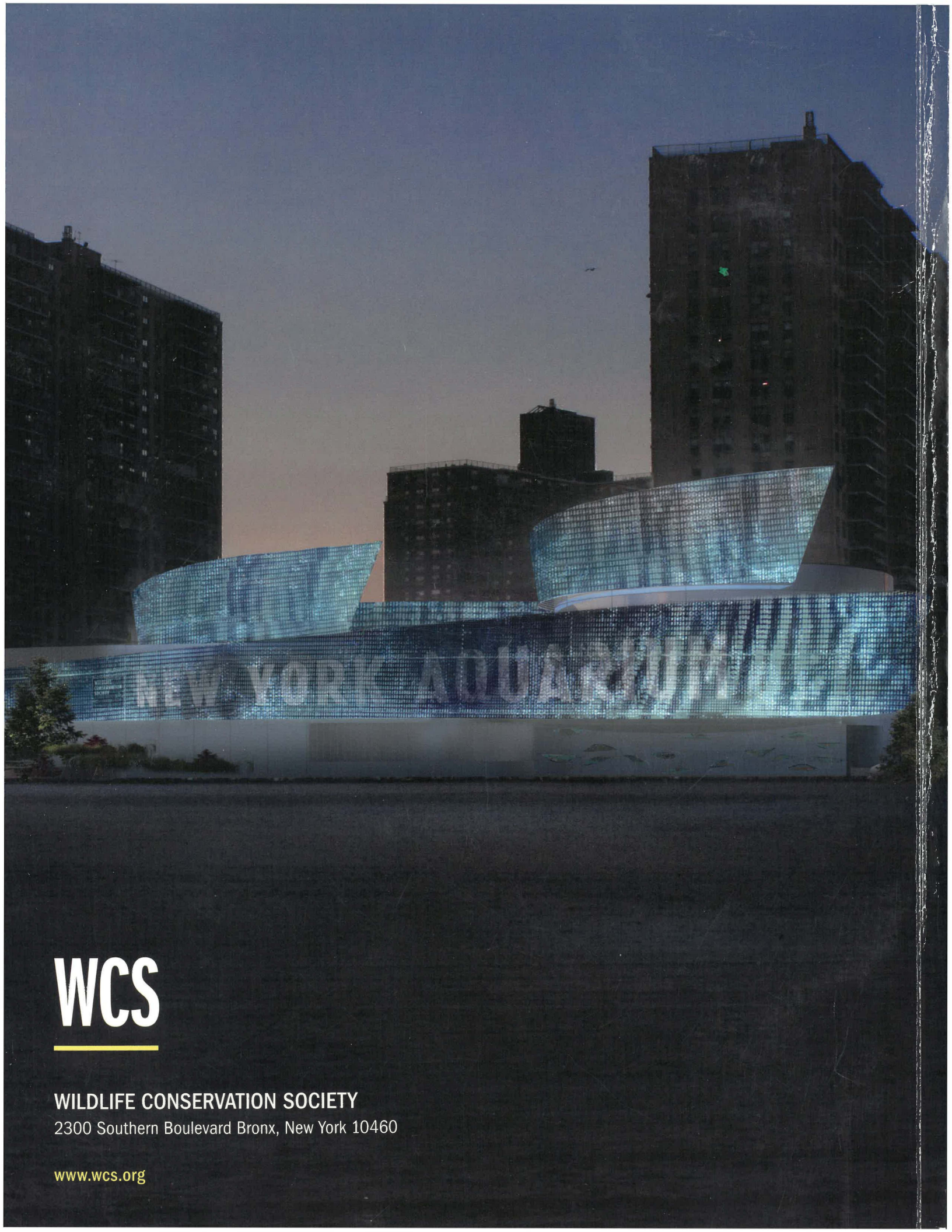
The Trustees of the Wildlife Conservation Society recommend that, for estate planning purposes, members and friends consider the following language for use in their wills:

"To the Wildlife Conservation Society ("WCS"), a not-for-profit, tax-exempt organization incorporated in the state of New York in 1895, having as its principal address 2300 Southern Boulevard, Bronx, New York 10460, I hereby give and bequeath _____ to be used as determined by WCS for the general purposes of WCS."

In order to help WCS avoid future administration costs, we suggest adding the following paragraph to any restrictions that are imposed on a bequest: "If at some future time, in the judgment of the Trustees of the Wildlife Conservation Society, it is no longer practical to use the income and/or principal of this bequest for the purposes intended, the Trustees have the right to use the income and/or principal for whatever purposes they deem necessary and most closely in accord with the intent described herein."

If you wish to discuss the language of your bequest and other planned giving options, please contact the Office of Planned Giving at 719-220-6894.

For information on how you can support the Wildlife Conservation Society, please call our Development Department at 718-220-5090. A copy of this annual report may be obtained by writing to the Office of the Chairman, Wildlife Conservation Society, 2300 Southern Boulevard, Bronx, New York 10460. In addition, a copy of WCS's annual filing with the Charities Bureau of the Office of the New York State Attorney General may be obtained by writing to the Charities Bureau, New York State Attorney General's Office, 3rd Floor, 120 Broadway, New York, New York 10271.



WCS

WILDLIFE CONSERVATION SOCIETY

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